TELEFUNKEN MP-254

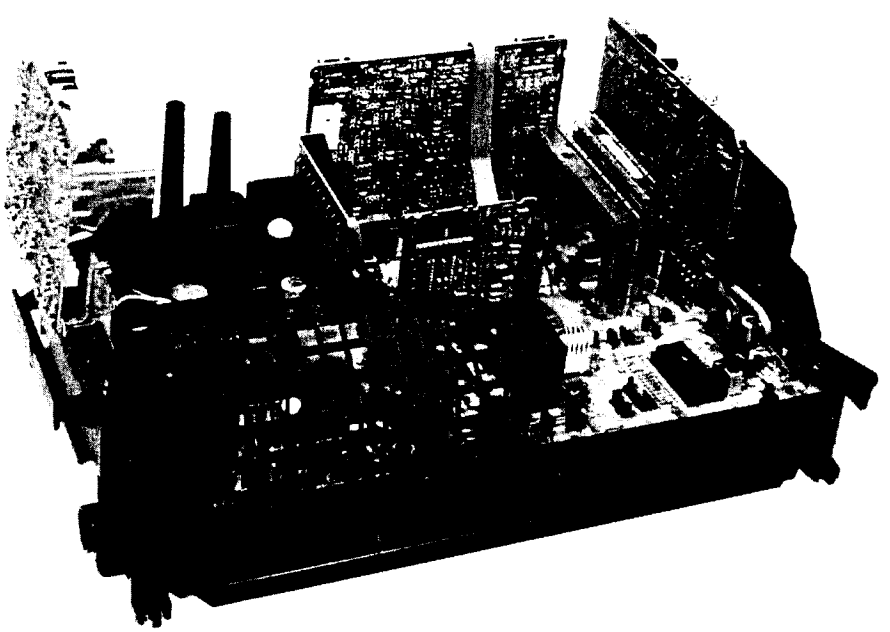
MODEL

SERVICE MANUAL

FERGUSON
THOMSON TECHNOLOGY

ICC8 SERIES
COLOUR TELEVISION

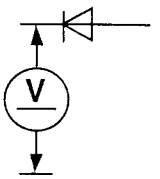
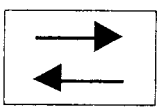
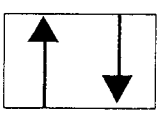
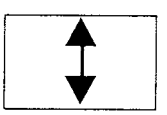
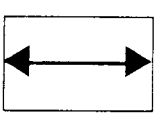
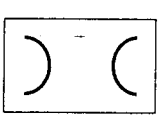
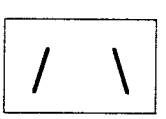
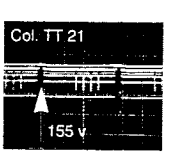
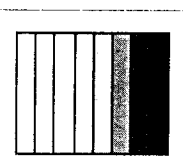
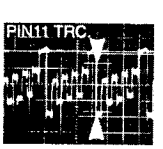
MODEL NUMBERS LISTED ON PAGE 1.

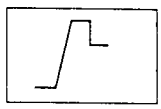
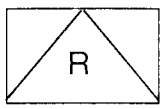
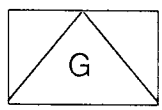
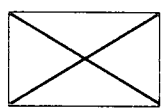
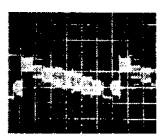
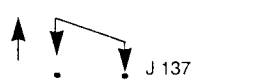
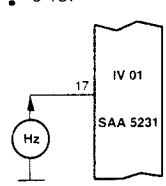
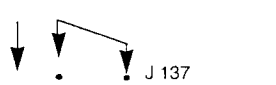
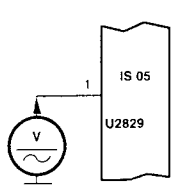
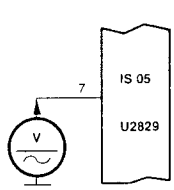


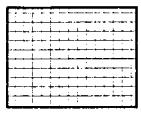
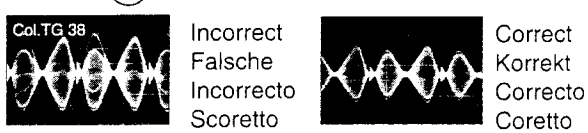
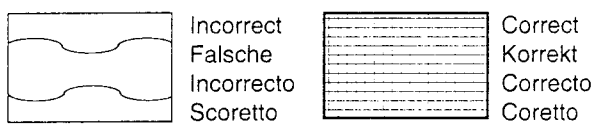
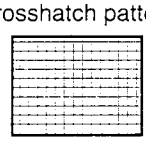
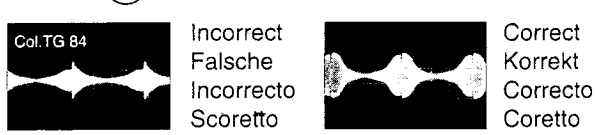
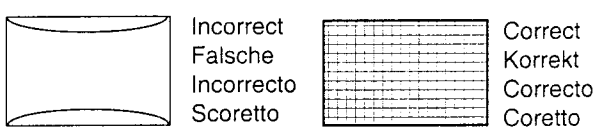
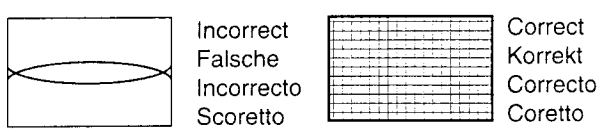
SERVICE MANUAL

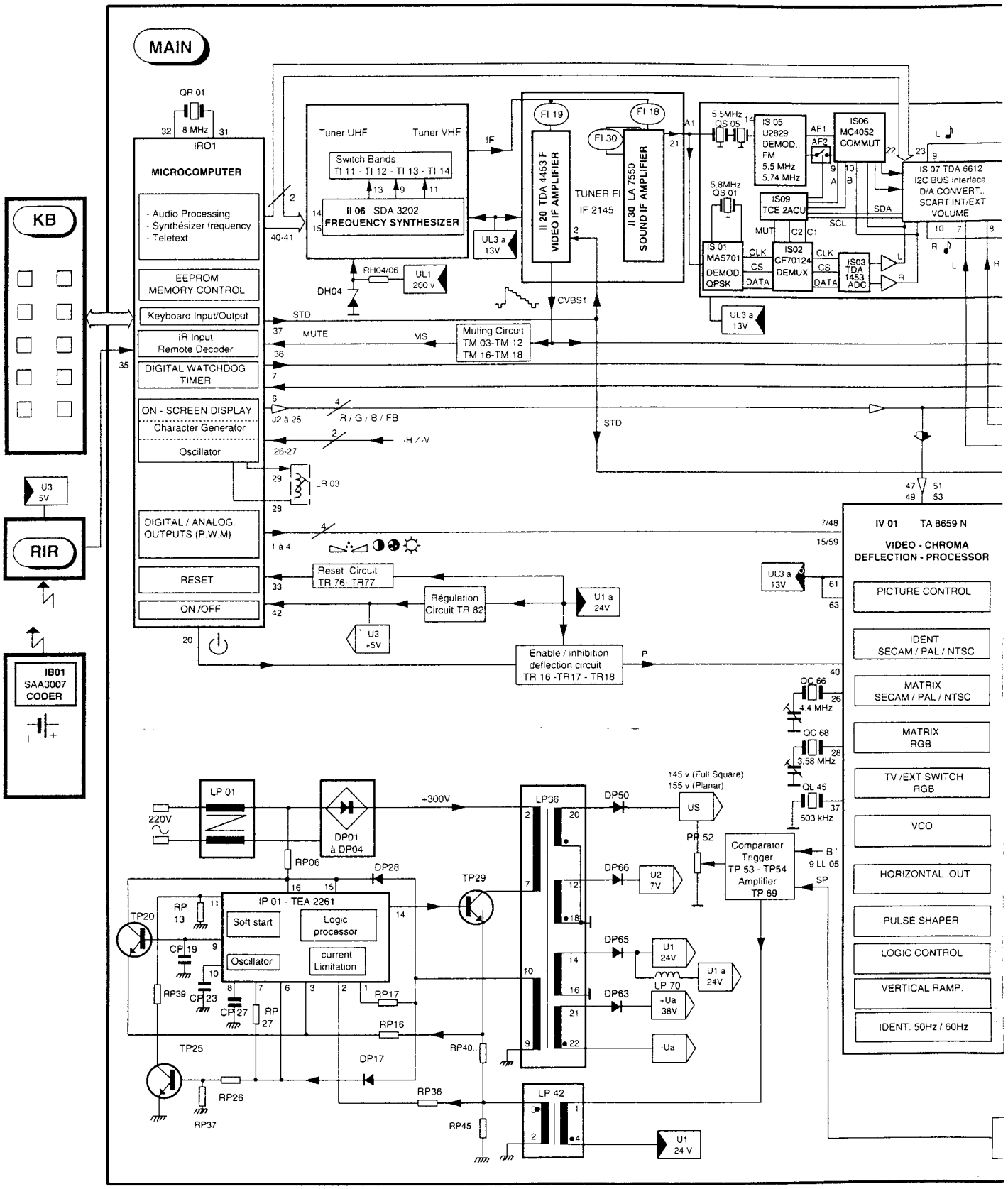
FERGUSON LIMITED, CROWN ROAD, ENFIELD, MIDDX EN1 1DZ
TEL.No : 081 344 4444 • FAX. No : 081 344 4455. • TELEX 916304 FERG G.
FERGUSON is a registered trade-mark

TCE 00XM 205 001 mPC

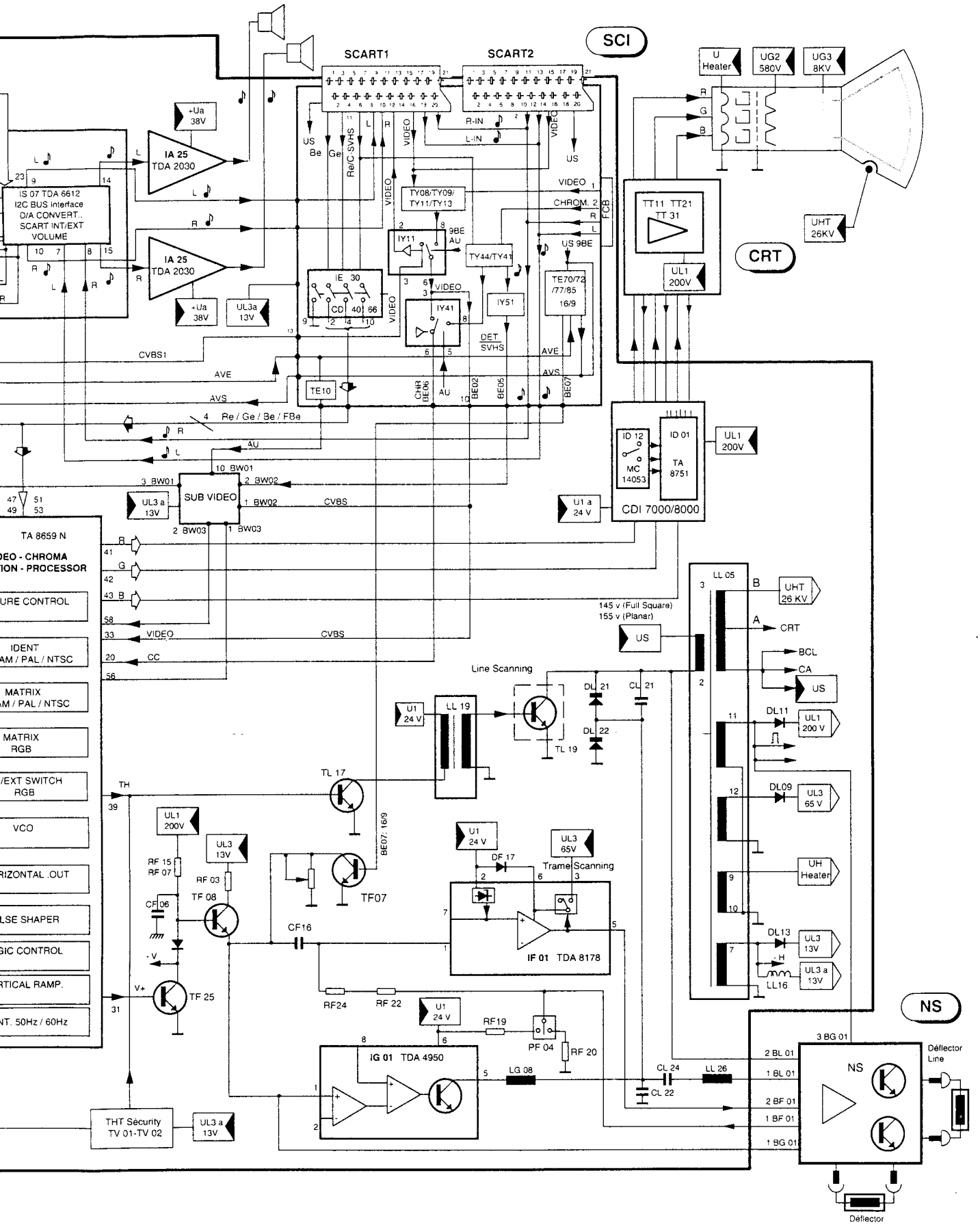
Pos.	Adj. / Rég. / Eins. / Tara	Adjust to / Régler pour / Einstellen auf / Reglar para / Regolare su
MAIN PP 52	Principal voltage Tension principale Versorgungspannung Tensión principal Tensione principale	V=U Syst.*  DP 50 * 145 V Full Square 155 V Planar
PL 39	Horizontal picture shift Cadrage horizontal Bildlage horizontal Cuadraje horizontal Correzione orizzontale	
PF 04	Vertical picture shift Cadrage vertical Bildlage vertikal Cuadraje vertical Correzione verticale	
PF 11	Picture height amplitude verticale Bildhöhe Amplitud vertical Ampiezza verticale	
PG 01	Picture width amplitude horizontale Bildbreite Amplitud horizontal Ampiezza orizzontale	
PG 06	East-West pillow Coussin Est-Ouest Ost-West kissen Cojin Este-Oeste Cuscino Est-Ouest	
PG 04(4/3) PG20(16/9)	East-West pincushion Trapèze Est-Ouest Ost-West trapez Trapecio Este-Oeste Trapezio Est-Ouest	
CRT PT 01	Screen grid voltage Tension G2 Schirmgitterspannung Tensión rejilla Tensione griglia	= 0 
MAIN PV 79	Peak white Ecretage des blancs Spitzenweiss Punta de blanco Bianco punte	 = MAX. + = 1/2 

Pos.	Adj. / Rég. / Eins. / Tara. /	Adjust to / Régler pour / Einstellen auf / Reglar para / Regolare su
MAIN PV 58	CONTOUR	
CRT PT 12 PT 22	Red ; Rouge ; Rot ; Rojo ; Rosso Green ; Vert ; Grün ; Verde ; Verde	 
PT 01	FOCUS	
MAIN LI 61	Sound rejection Réjecteur son Tonunterdrückung Trampa audio Reiettore audio	Incorrect Falsche Incorrecto Scoretto  Correct Korrekt Correcto Coretto
PC 44 LC 43	PAL amplitude Amplitude PAL PAL pegel (PAL) Amplitud PAL Ampiezza PAL Delay line Ligne à retard Verzögerungsleitung (PAL) Linea de retardo	Pairing min. Effet persienne min. Paarigkeit min. Efecto persiana minimo. Parita min.
DVT LV 27	Oscillator Oscillateur Oszillator Oscilador Oscillatore	-1  -2 6 MHz  -3 
NI LS 03 5,5MHz	Demodulation flywheel Volant de démodulation Demodulations-Schwungrad Bobina de desmodulación Bobina di demodulazione	 V=MAX
LS 04 5,74 MHz	Demodulation flywheel Volant de démodulation Demodulations-Schwungrad Bobina de desmodulación Bobina di demodulazione	 V=MAX

Pos.	Adj. / Rég. / Ein / Tara	Adjust to / Régler pour / Einstellen auf / Reglar para / Regolare su
NS		Mire de convergences 
PG 32		-1 PG 32 max
	Gullwing correction control Amplitude de correction aile de mouette Möwenflügel-Korrekturamplitude Amplitud de correción ala de gaviota Ampiezza correzione ala di gabbiano	-2 LG 39  Incorrect Falsche Incorrecto Scoretto Correct Korrekt Correcto Coretto
LG 39		-3 PG 32  Incorrect Falsche Incorrecto Scoretto Correct Korrekt Correcto Coretto
PG 79		Crosshatch pattern 
		-1 PG 79 max
	Amplitude of North/South pincushion Amplitude Nord/Sud Nord/Süd Kissen Amplitude Amplitud de cojin Norte/Sur Ampiezza cuscino Nord/Sud	-2 LG 84  Incorrect Falsche Incorrecto Scoretto Correct Korrekt Correcto Coretto
LG 84		-3 PG 79  Incorrect Falsche Incorrecto Scoretto Correct Korrekt Correcto Coretto
PG 63	Symmetry top and bottom Symétrie haut et bas Symmetrie oben unten Simetria alto bajo Simmetria alto basso	 Incorrect Falsche Incorrecto Scoretto Correct Korrekt Correcto Coretto


MAIN
KB
RIR
IB01
SAA3007
CODER
QR 01
8 MHz
IRO1
MICROCOMPUTER
- Audio Processing
- Synthésizer frequency
- Teletext
EEPROM
MEMORY CONTROL
Keyboard Input/Output
iR Input
Remote Decoder
DIGITAL WATCHDOG
TIMER
ON - SCREEN DISPLAY
Character Generator
Oscillator
DIGITAL / ANALOG.
OUTPUTS (P.W.M)
RESET
ON /OFF
Tuner UHF
Tuner VHF
Switch Bands
TI 11 - TI 12 - TI 13 - TI 14
II 06 SDA 3202
FREQUENCY SYNTHESIZER
IF
UL3 a
13V
FI 19
II 20 TDA 4453 F
VIDEO IF AMPLIFIER
FI 30
FI 18
II 30 LA 7550
SOUND IF AMPLIFIER
TUNER FI
IF 2145
5,5MHz
QS 05
IS 05
U2829
DEMOD..
FM
5,5 MHz
5,74 MHz
IS06
MC4052
COMMUT
IS 07 TDA 6612
I2C BUS interface
D/A CONVERT..
SCART INT/EXT
VOLUME
5,8MHz
QS 01
IS09
TCE 2ACU
IS 01
MAS701
DEMOD
QPSK
IS02
CF70124
DEMUX
IS03
TDA
1453
ADC
SDA
SCL
MUT
CLK
CS
DATA
RH04/06
UL1
200 v
DH04
CVBS1
STD
MUTE
MS
Muting Circuit
TM 03-TM 12
TM 16-TM 18
R / G / B / FB
-H / -V
LR 03
Reset Circuit
TR 76- TR77
Régulation
Circuit TR 82
U1 a
24V
U3
+5V
Enable / inhibition
deflection circuit
TR 16 -TR17 - TR18
IV 01 TA 8659 N
VIDEO - CHROMA
DEFLECTION - PROCESSOR
PICTURE CONTROL
IDENT
SECAM / PAL / NTSC
MATRIX
SECAM / PAL / NTSC
MATRIX
RGB
TV /EXT SWITCH
RGB
VCO
HORIZONTAL OUT
PULSE SHAPER
LOGIC CONTROL
VERTICAL RAMP.
IDENT. 50Hz / 60Hz
QC 66
4.4 MHz
QC 68
3.58 MHz
QL 45
503 kHz
LP 01
220V
DP01
à DP04
+300V
LP36
DP50
145 v (Full Square)
155 v (Planar)
US
PR 52
Comparator
Trigger
TP 53 - TP54
Amplifier
TP 69
DP66
U2
7V
DP65
DP63
LP 70
+Ua
38V
-Ua
IP 01 - TEA 2261
Soft start
Logic
processor
Oscillator
current
Limitation
TP20
TP29
TP25
RP06
DP28
RP17
RP16
RP40..
DP17
RP36
RP45
RP26
RP37
LP 42

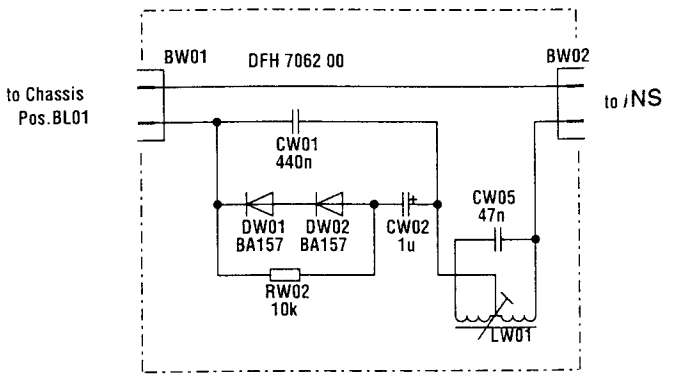
DE BLOQUES - SCHEMA A BLOCCHI (STEREO)

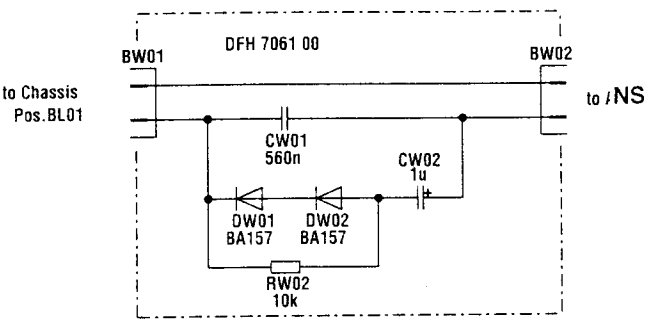


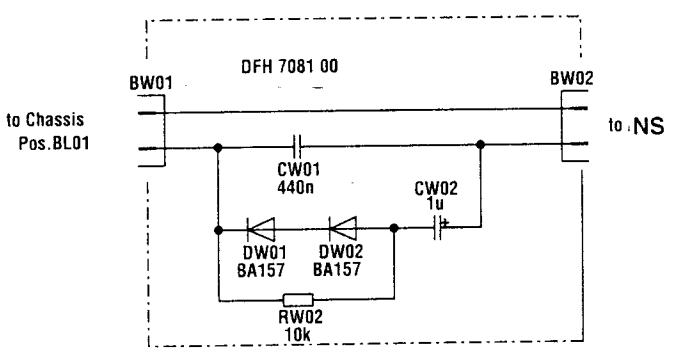
* - CPT PART LIST :SCAN (CIRCUIT)

CRT	29 " BSP	25" FS	25" MP	22 " FST
CF 04	1 µF	1 µF	1 µF	1 µF
CG 05	47 nF	47 nF	47 nF	47 nF
CL 22	12 nF	20 nF	20 nF	20 nF
CL 24	1,5 µF	440 nF	1 µF	1 µF
CL 25	1 µF	1 µF	1 µF	1 µF
CL 27	220 nF	-	-	-
DL 26	BA 157	-	BA 157	BA 157
J 128	-	-	-	-
J 129	Strap	-	-	-
LG 08	oui	0	0	0
LL 05	oui	-	-	-
LL 06	-	30 µH	-	-
LL 23	-			46 µH
LL 26	30 µH	37,5 µH	37,5 µH	30 µH
RF 11	1 K	1 K	1 K	1 K
RF 16	12,7 K - 1%	17,8 K - 1%	17,8 K - 1%	12,7 K -1%
RF 22	34,8 K - 1%	43,2 K - 1%	43,2 K - 1%	33,2 K -1%
RF 24	33,2 K - 1%	48,7 K - 1%	48,7 K - 1%	38,3 K - 1%
RF 27	47 k	68 K	68 K	56 K
RG 07	270 K	270 k	270 K	270 K
RG 20	10 K	10 k	10 K	10 K
RG 21	10 K	-	-	-
RL 05	120 K	120 k	120 K	120 K
RL 21	680 M	680 M	680 M	680 M
RL 25	2,2 K	-	2,2 K	-
RL 27	-	560	560	560
RL 28	-	1 K	-	680
	DFH 7081	**DFH 7061**	**DFH 7062**	**DFH 7052**
CW 01	440 nF	560 nF	440 nF	470 nF
CW 02	-	-	-	1 µF
CW 05	-	-	47 nF	-
DW 01	-	-	-	BA 157
DW 02	-	-	-	BA 157
LW 01	-	-	oui	-
RW 02	10 K	10 K	10 K	10 K

LL05	OREGA	ELDOR
CL 21	11 nF	11 nF
CL 23	6,8 nF	6,8 nF
RL 23	22Ω	22Ω
RL 30	1,2Ω	0,27Ω
LL 23	60 µH	54 µH

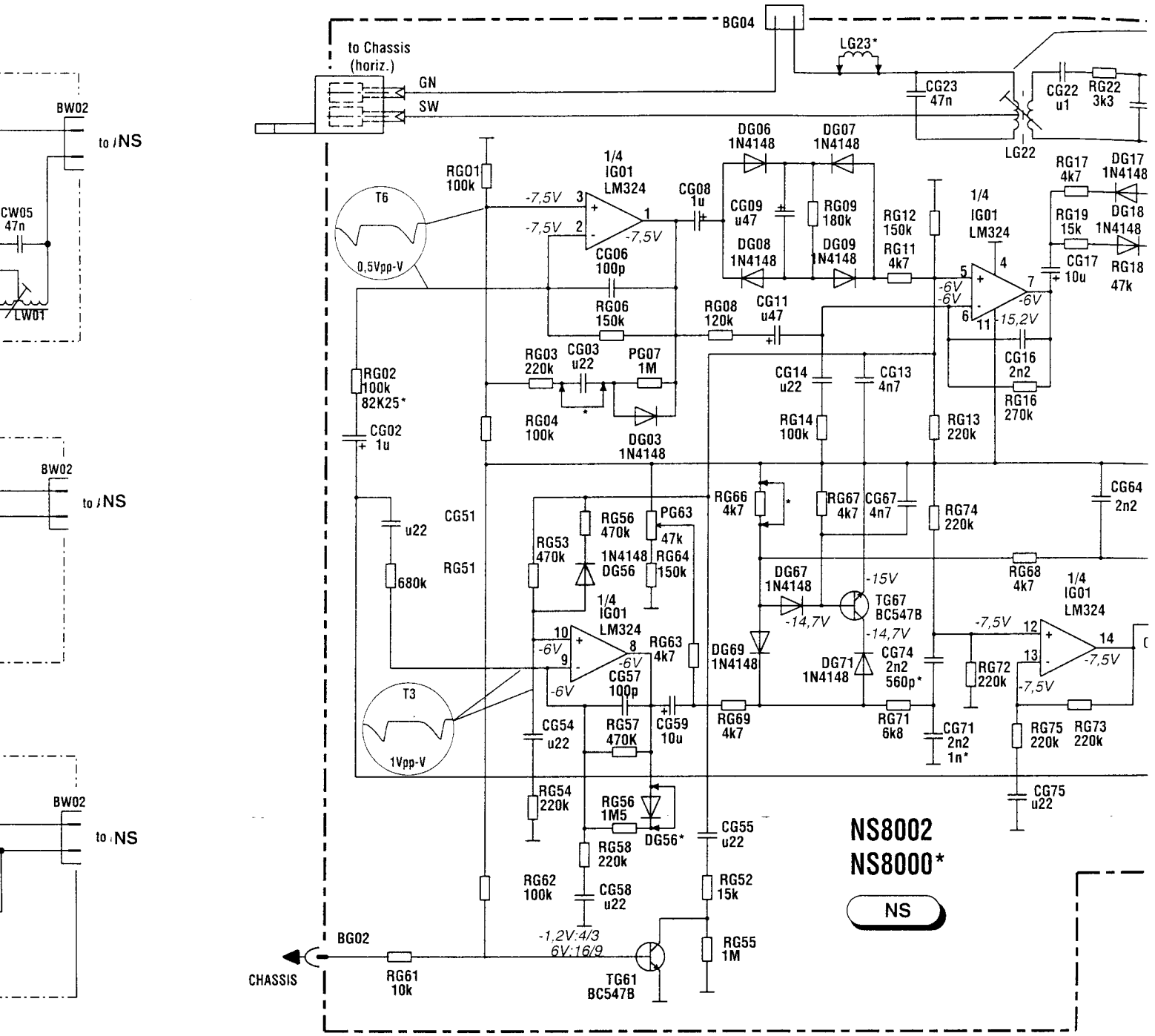


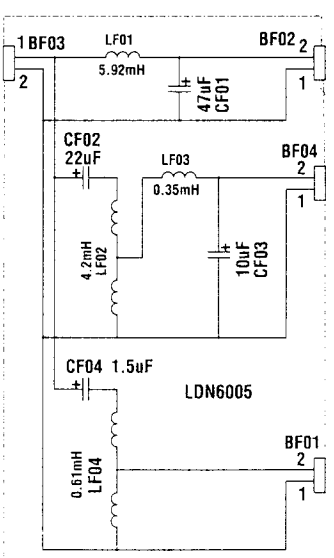


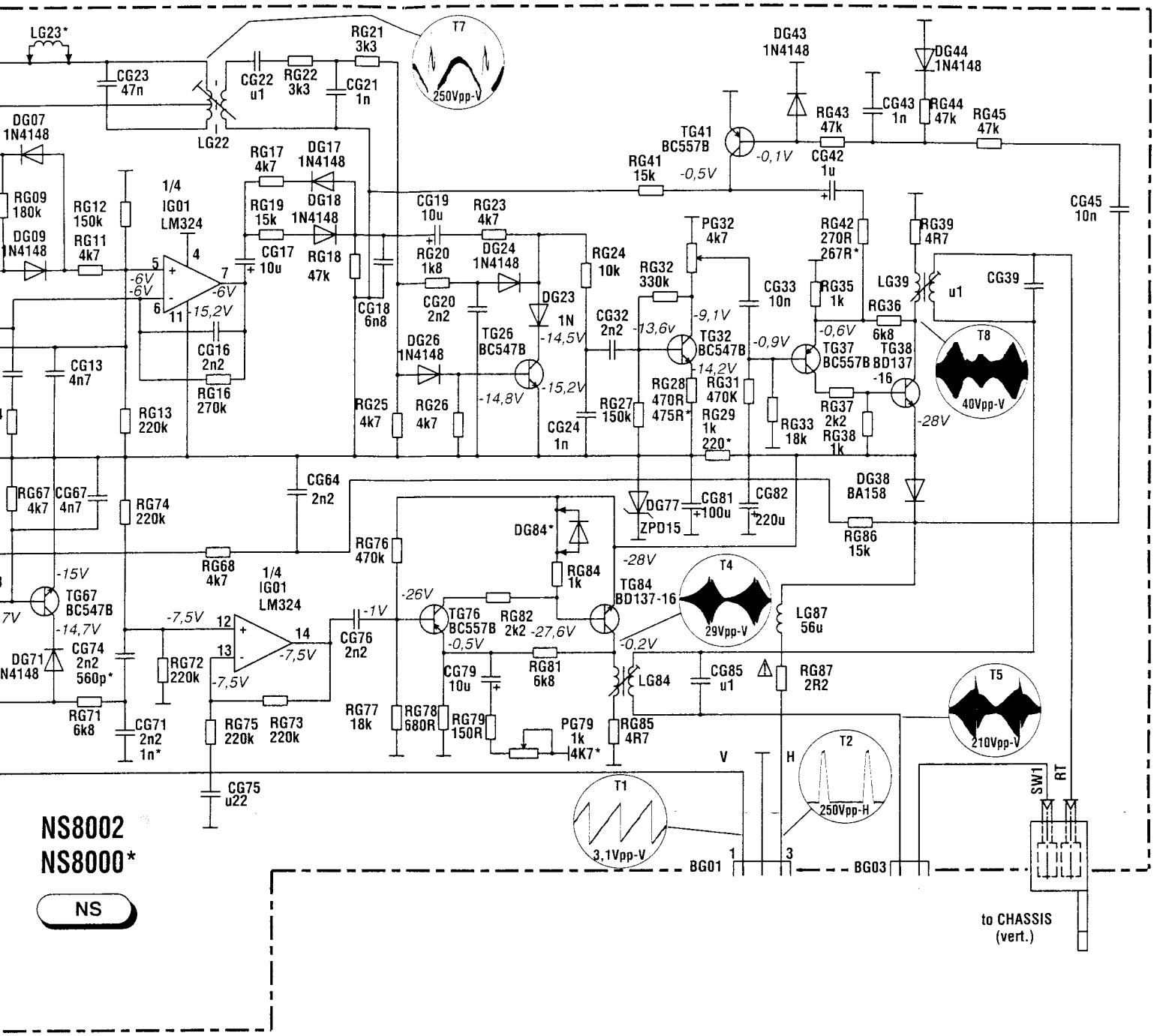


* * - POWER SUPPLY (CIRCUIT)

	21 " 110 ° Version (1)	21 " 110 ° Version (2)	25 " /28 " /29" 110 ° Version (1)	25 " /28 " /29" 110 ° Version (2)
TP 29	BUH 515	BUH 713	BUH 515	BUH 713
LP 36	401531-00	473100-01	401530-00	473100-02
RP 06	39 K	27 K	39 K	27 K
RP 18	47	22	47	22
RP 19	33	-	33	220
RP 21	4,7	10	4,7	10
RP 27	3,3 K	15 k	3,3 K	15 k
CP 16	220 nF	47 nF	220 nF	47 nF
CP 19	210 nF	330 nF	210 nF	330 nF
CP 22	470	1000 µF	470	1000
CP 28	330 pf	1 µF	330	1 µF
CP 29	3,3 nF	2,2	3,3 nF	2,2
DP 19	BA 157	-	BA 157	BA 157

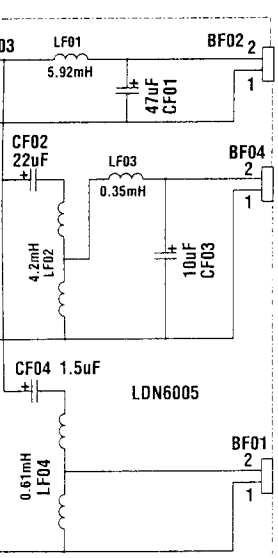

BG04
to Chassis
(horiz.)
GN
SW
LG23*
CG23
47n
CG22
u1
RG22
3k3
LG22
DG06
1N4148
DG07
1N4148
RG01
100k
1/4
IG01
LM324
CG08
1u
CG09
u47
RG09
180k
RG12
150k
RG11
4k7
DG08
1N4148
DG09
1N4148
RG17
4k7
DG17
1N4148
RG19
15k
DG18
1N4148
CG17
10u
RG18
47k
T6
0,5Vpp-V
-7,5V
CG06
100p
RG06
150k
RG08
120k
CG11
u47
-6V
-15,2V
CG16
2n2
RG16
270k
RG03
220k
CG03
u22
PG07
1M
RG04
100k
DG03
1N4148
RG02
100k
82K25*
CG02
1u
CG14
u22
CG13
4n7
RG14
100k
RG13
220k
CG64
2n2
CG51
u22
RG51
680k
RG56
470k
PG63
47k
RG53
470k
1N4148
DG56
RG64
150k
RG66
4k7
RG67
4k7
CG67
4n7
RG74
220k
RG68
4k7
DG67
1N4148
-15V
TG67
BC547B
-14,7V
DG69
1N4148
DG71
1N4148
CG74
2n2
560p*
RG72
220k
RG63
4k7
CG57
100p
T3
1Vpp-V
CG54
u22
RG57
470K
CG59
10u
RG69
4k7
RG71
6k8
CG71
2n2
1n*
RG75
220k
RG73
220k
CG75
u22
RG54
220k
RG56
1M5
DG56*
CG55
u22
RG58
220k
RG62
100k
CG58
u22
RG52
15k
RG55
1M
-1,2V:4/3
6V:16/9
BG02
CHASSIS
RG61
10k
TG61
BC547B
NS8002
NS8000*
NS

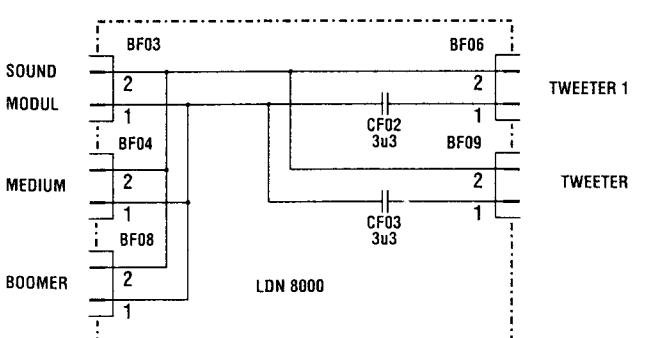

BF03
LF01
5.92mH
BF02
47uF
CF01
CF02
22uF
LF03
0.35mH
BF04
4.2mH
LF02
10uF
CF03
CF04 1.5uF
LDN6005
0.61mH
LF04
BF01



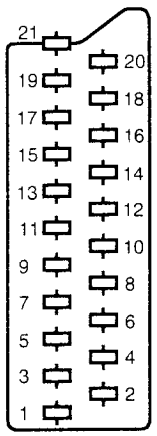
NS8002
NS8000*

NS





- *This service manual is designed to be progressively enlarged and updated as and when necessary.The contents for chapter 1 indicate the various sections which it will eventually contain.*
  The page numbering system ensures that future publications can either be added to or substituted for existing pages.
- Dans le sommaire chapitre I sont énumérés les différents chapitres qui, à terme, constitueront cette documentation technique à caractère évolutif.
  Par notre système de numération des pages nos parutions à venir s'ajouteront ou se substitueront à celles existantes.
- *Im Inhaltsverzeichnis von Kapitel I sind die verschiedenen Kapitel aufgeführt, aus denen die vorliegende technische Dokumentation bestehen wird, welche ständig auf dem letzten Stand gehalten wird.*
  Unser Seitennumerierungssystem wird dazu dienen, die später erscheinenden Seiten einzugliedern und die ungültig gewordenen herauszunehmen.
- En el sumario del capitulo I,se enumeran los differentes capitulos que a plazo,constituirán esta documentación técnica que tiene un carácter evolutivo.
  Mediante nuestro sistema de numeración de las páginas, los próximos documentos se agregarán a, o substituirán los existentes.
- *Nell' indice del capitolo I sono elencati i differenti capitoli che alla fine costituiranno una documentazione tecnica a carattere evolutivo.*
  In base al sistema di numerazione delle pagine, le future pubblicazioni si aggiungeranno o si sostituiranno a quelle esistenti.



NOTE : (MAIN)... etc. : identifies each pcb modul.

NOTE : (MAIN)... etc. ... repères des platines constituant l'appareil.

HINWEIS : (MAIN) usw. Kennzeichnungen der Platinen, aus denen das Gerät zusammengesetzt ist.

NOTA : (MAIN)... etc. marcas de las placas que constituyen el aparato.

NOTA : (MAIN)... ecc. indicazioni delle piastre che costituiscono l'apparecchio.

		ENGLISH	FRANÇAIS	DEUTSCH	ESPANÕL	ITALIANO
1	⊖→	AUDIO "R"	AUDIO "D"	AUDIO "R"	AUDIO "D"	AUDIO "D"
2	→⊕	AUDIO "R"	AUDIO "D"	AUDIO "R"	AUDIO "D"	AUDIO "D"
3	⊖→	AUDIO "L"	AUDIO "G"	AUDIO "L"	AUDIO "I"	AUDIO "S"
4	—	AUDIO	AUDIO	AUDIO	AUDIO	AUDIO
5	—	" BLUE "	" BLEU "	"BLAU"	"AZUL"	"BLU"
6	→⊕	AUDIO "L" MONO	AUDIO "G" MONO	AUDIO "L" MONO	AUDIO "I" MONO	AUDIO "S" MONO
7	→⊕	" BLUE "	" BLEU "	"BLAU"	AZUL	BLU
8	→⊕	SLOW SWITCH	COMMUT. LENTE	LANGSAMUMS CHALTUNG	"CONMUTACION LENTA"	"COMMUTAZIONE LENTA"
9	—	" GREEN "	"VERT"	"GRÜN"	"VERDE"	"VERDE"
10	NC					
11	→⊕	" GREEN "	"VERT""	"GRÜN"	"VERDE"	"VERDE"
12	NC					
13	—	" RED "	"ROUGE"	"ROT"	"ROJA"	"ROSSO"
14	NC					
15	→⊕	" RED "	"ROUGE"	"ROT"	"ROJA"	"ROSSO"
16	→⊕	FAST SWITCH	COMMUT. RAPIDE	SCHNELLUMS CHALTUNG	"CONMUTACION RAPIDA"	"COMMUTAZIONE RAPIDA"
17	—	VIDÉO	VIDÉO	VIDÉO	VIDÉO	VIDÉO
18	—	FAST SWITCH	COMMUT. RAPIDE	SCHNELLUMS CHALTUNG	"CONMUTACION RAPIDA"	"COMMUTAZIONE RAPIDA"
19	⊖→	VIDEO	VIDÉO	VIDÉO	VIDÉO	VIDÉO
20	→⊕	VIDEO OR "SYNC"	VIDEO SYNCHRO	VIDÉO ODER – SYNCHRO	VIDEO O SINCRO	VIDEO O SINCRO
21	⊖→	PLUG SCREEN BOX	BLINDAGE FICHE	ABSCHIRMUNG DES STECKERS	BLINDAJE DEL ENCHUFE	ARMATURA DELLA SPINA

⊖→ : OUTPUT - SORTIE - AUSGANG - SALIDA - USCITA

→⊕ : INPUT - ENTRÉE - EINGANG - ENTRADA - ENTRATA

— : EARTH - MASSE - MASSE - MASA - MASSA

MEASUREMENT CONDITIONS - CONDITIONS DE MESURES - MESSBEDINGUNGEN
CONDICIONES DE MEDIDAS - CONDIZIONI DI MISURA

RECEIVER : On UHF,imput level : 1 mV, bar test pattern :
- PAL, I standard, 100% white.

Via the scart socket, input level : 1 VDC, bar test pattern :

Colour, contrast and brightness at mid-position, sound at minimum.
Programme selected : PR 01.

DC voltages measured between the point and earth usihg a digital voltmeter.

RECEPTEUR : En UHF, niveau d'entree 1 mV mire de barres
- SECAM, Norm L, Blanc 100%.

Par la prise Péntelévision, niveau d'entrée 1 Vcc, mire de barres .

Couleur, contraste, lumière à mi-course, son minimum.
Programme affecté PR 01.

Tensions continues relevées par rapport à la masse avec un voltmètre numérique.

EMPFÄNGER : Bei UHF Eingangspegel 1 mV, Stabprüfbild :
- PAL, Norm G, Weiss 100%.

Durch die Peritel-Steckdose : Eingangspegel 1 V GS, Prüfbild :

Farbe, Kontrast, Licht in der Mitte des Bereichs, Ton auf Minimum.
Zugeordnetes Programm PR 01.

Gleichspannungen mit einem digitalen Voltmeter zur Masse gemessen.

RECEPTOR : En UHF, nivel de entrada 1 mV, mira de barras :
- PAL, norma G, blanco 100%.

Por la toma Pentelevision, nivel de entrada 1 Vcc mira de barra.

Color, Contraste, luz a mitad de carrera, Sonido mínimo.
Programa afectado PR 01.

Tensiones continuas marcadas en relacion a la masa con un voltimetro digital.

RICEVITORE : In UHF, livello d'entrata 1 mV, monoscopio per barre :
- PAL, norma G, bianco 100%.

Per la pressa SCART, livello d'entrata 1 Vcc, monoscopio per barre :

Colore, Contrasto, Luce a metà corsa, Suono minimo.
Programma designato PR 01.

Tensioni continue rilevate par rispetto alla massa con un voltametro numerico.

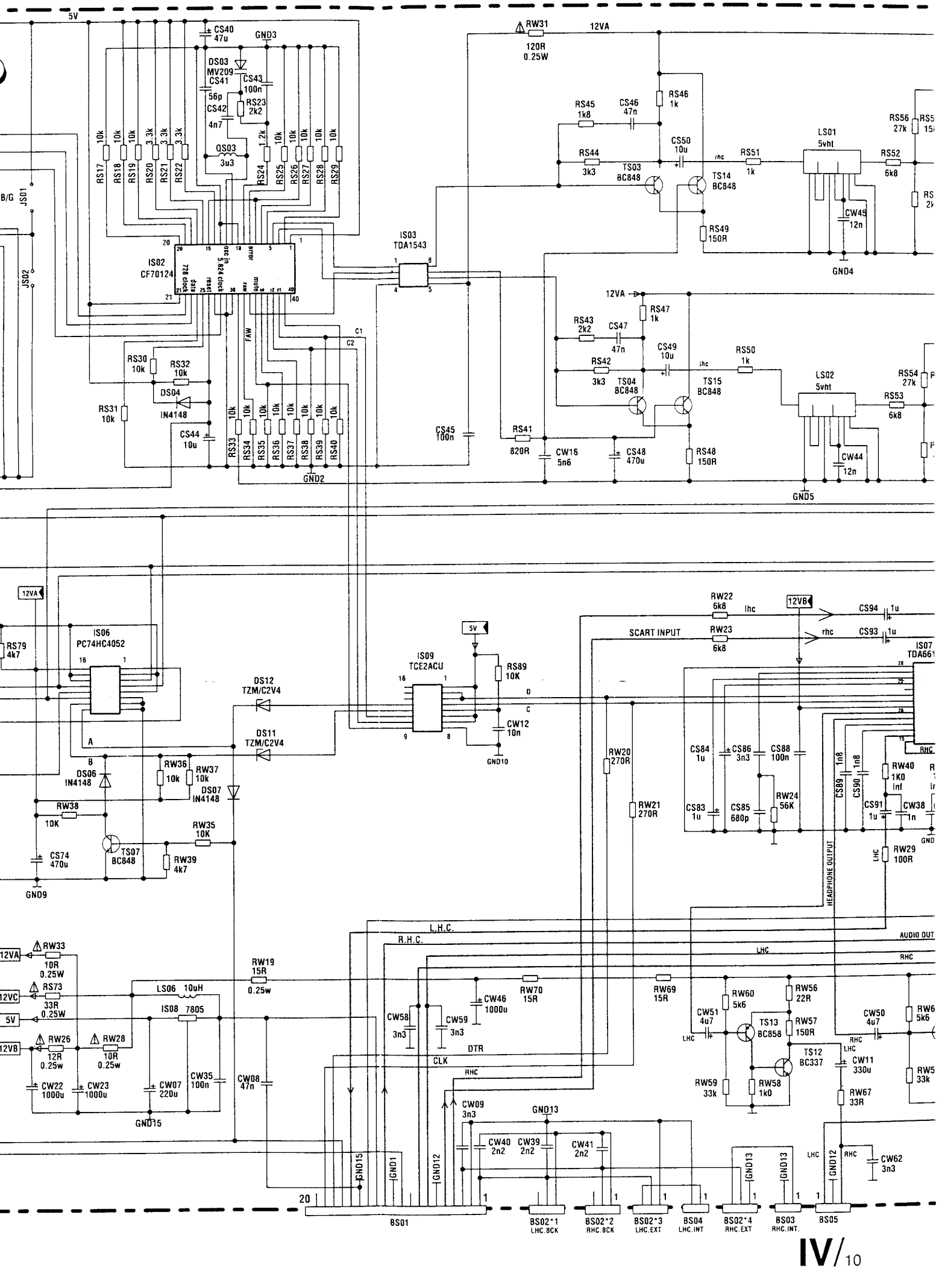
⚠ *Indicates critical safety components, and identical components should be used for replacement.*

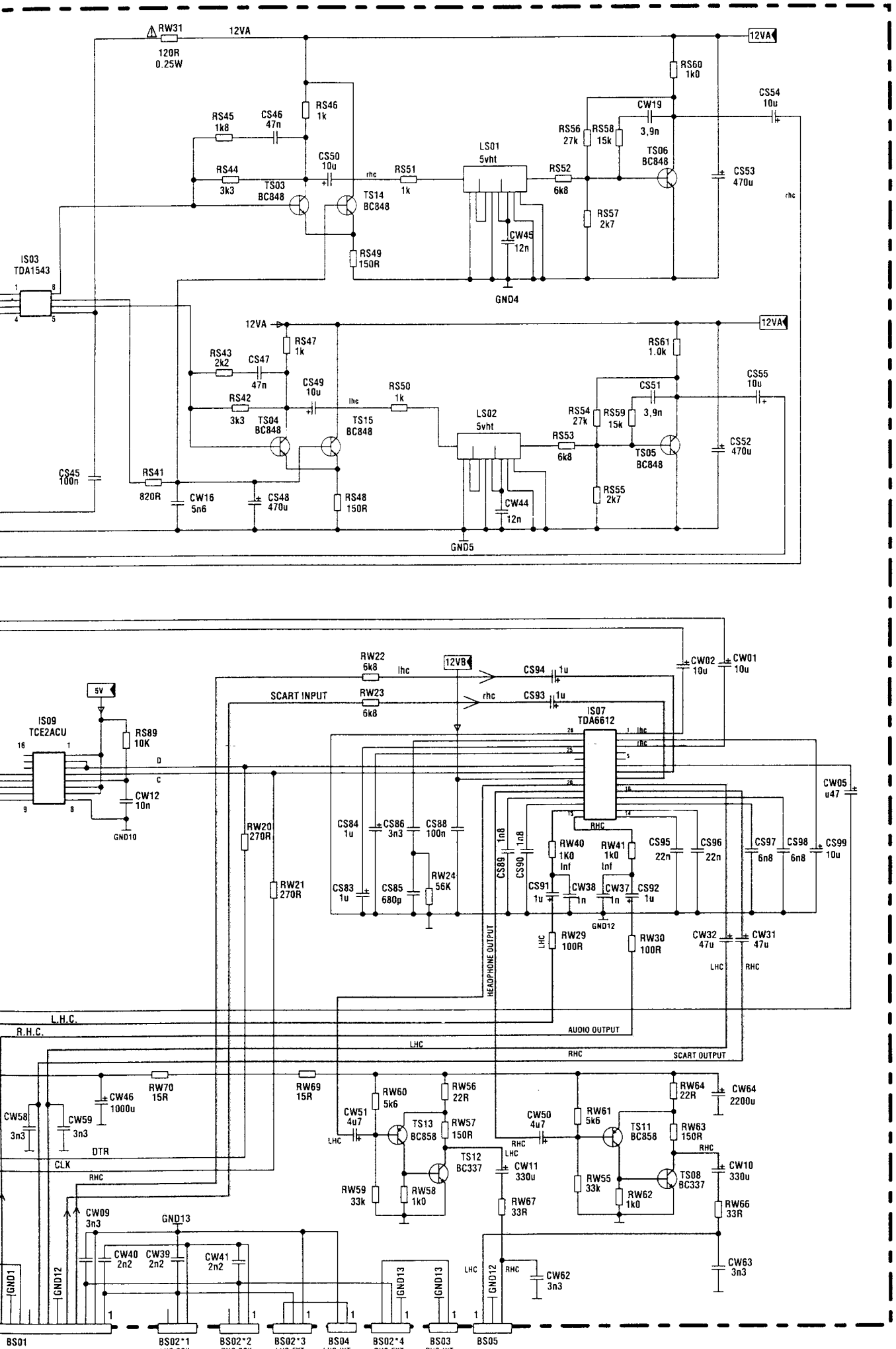
Le remplacement des éléments de sécurité (repérés avec le symbole ⚠) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil.
Dans ce cas, la responsabilité du fabricant n'est plus engagée.

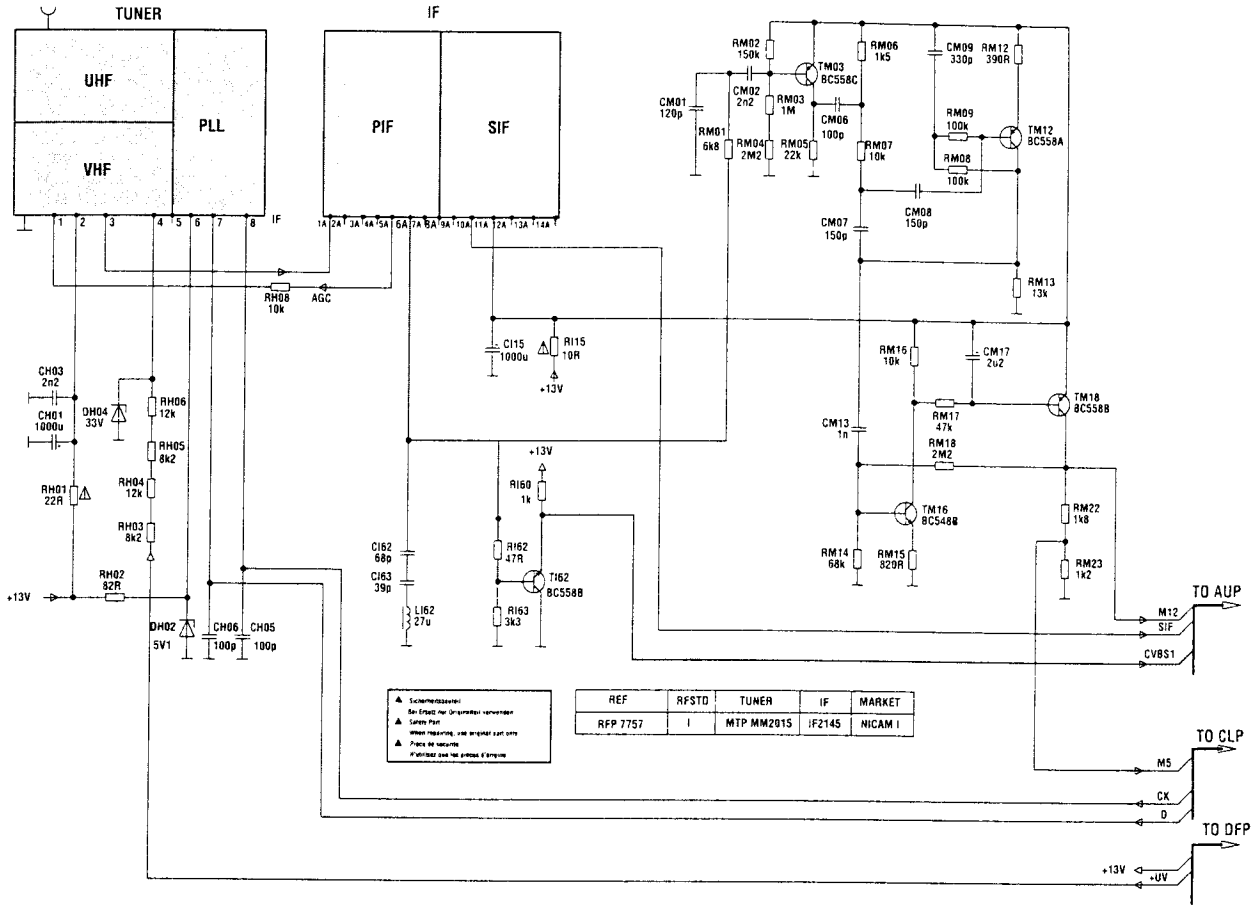
Wenn Sicherheitsteile (mit dem Symbol ⚠ gekennzeichnet) durch nicht normengerechte Teile ersezt werden, erlischt die Haftung des Herstellers.

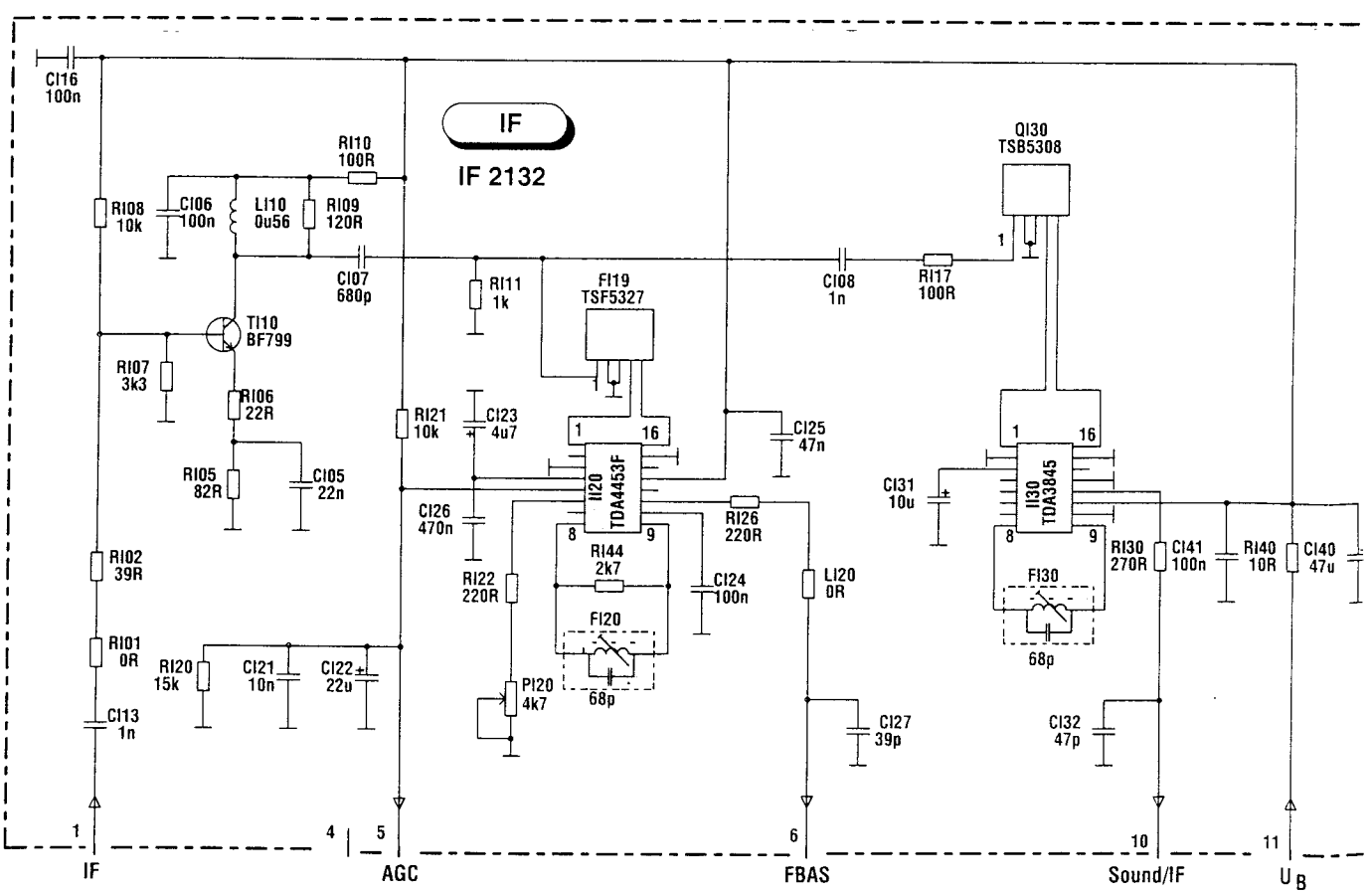
La subtitución de elementos de seguridad (marcados con el simbolo ⚠) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato.
En ese caso, el fabricante cesa de ser responsable.

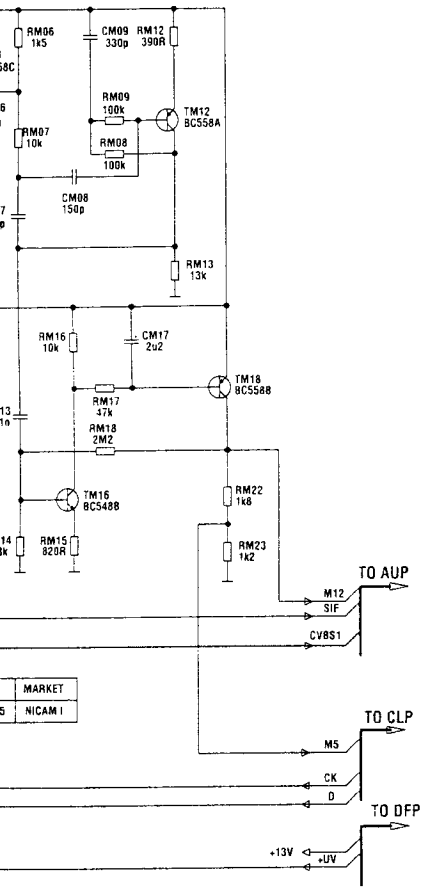
La sostituzione degli elementi di sicurezza (marchi con il segno ⚠) con componenenti non omologati secondo la norma CEI 65 comporta la non conformita dell'apparecchio.
In tal caso e "esclusa la responsabilita"el costruttore.

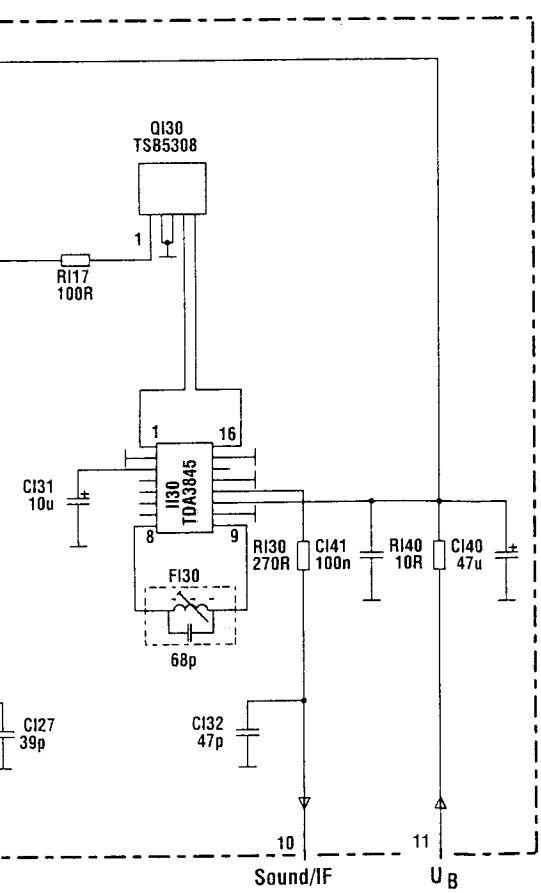

5V
CS40 47u
GND3
DS03 MV209
CS41 56p
CS43 100n
CS42 4n7
RS23 2k2
OS03 3u3
RS17 10k
RS18 10k
RS19 10k
RS20 3.3k
RS21 3.3k
RS22 3.3k
RS24 1.2k
RS25 10k
RS26 10k
RS27 10k
RS28 10k
RS29 10k
IS02 CF70124
IS03 TDA1543
RW31 120R 0.25W
12VA
RS45 1k8
CS46 47n
RS46 1k
RS44 3k3
TS03 BC848
CS50 10u
TS14 BC848
RS51 1k
LS01 5vht
RS52 6k8
RS56 27k
CW45 12n
RS49 150R
GND4
RS43 2k2
CS47 47n
RS47 1k
RS42 3k3
TS04 BC848
CS49 10u
TS15 BC848
RS50 1k
LS02 5vht
RS53 6k8
RS54 27k
CW44 12n
GND5
RS30 10k
RS32 10k
DS04 IN4148
RS31 10k
CS44 10u
RS33 10k
RS34 10k
RS35 10k
RS36 10k
RS37 10k
RS38 10k
RS39 10k
RS40 10k
GND2
CS45 100n
RS41 820R
CW16 5n6
CS48 470u
RS48 150R
12VA
RS79 4k7
IS06 PC74HC4052
DS12 TZM/C2V4
DS11 TZM/C2V4
IS09 TCE2ACU
RS89 10K
CW12 10n
GND10
DS06 IN4148
DS07 IN4148
RW36 10k
RW37 10k
RW38 10K
RW35 10K
CS74 470u
TS07 BC848
RW39 4k7
GND9
RW22 6k8
RW23 6k8
SCART INPUT
12VB
CS94 1u
CS93 1u
IS07 TDA661
RW20 270R
RW21 270R
CS84 1u
CS86 3n3
CS88 100n
CS83 1u
CS85 680p
RW24 56K
CS89 1n8
CS90 1n8
CS91 1u
RW40 1K0
CW38 1n
RW29 100R
HEADPHONE OUTPUT
AUDIO OUT
L.H.C.
R.H.C.
RW33 10R 0.25W
RS73 33R 0.25W
RW26 12R 0.25w
RW28 10R 0.25w
LS06 10uH
IS08 7805
RW19 15R 0.25w
CW22 1000u
CW23 1000u
CW07 220u
CW35 100n
CW08 47n
GND15
CW58 3n3
CW59 3n3
CW46 1000u
RW70 15R
DTR
CLK
RW69 15R
RW60 5k6
RW56 22R
CW51 4u7
TS13 BC858
RW57 150R
TS12 BC337
CW11 330u
RW67 33R
RW59 33k
RW58 1k0
CW50 4u7
CW09 3n3
GND13
CW40 2n2
CW39 2n2
CW41 2n2
CW62 3n3
GND1
GND12
BS01
BS02*1 LHC.BCK
BS02*2 RHC.BCK
BS02*3 LHC.EXT
BS04 LHC.INT
BS02*4 RHC.EXT
BS03 RHC.INT.
BS05

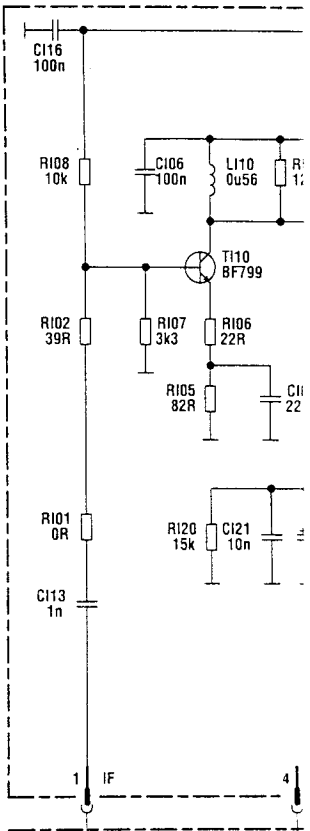

RW31
120R
0.25W
12VA
RS60
1k0
CS54
10u
CW19
3,9n
RS56
27k
RS58
15k
TS06
BC848
CS53
470u
RS46
1k
RS45
1k8
CS46
47n
CS50
10u
RS44
3k3
TS03
BC848
TS14
BC848
RS51
1k
LS01
5vht
RS52
6k8
RS57
2k7
CW45
12n
RS49
150R
GND4
IS03
TDA1543
12VA
RS47
1k
RS43
2k2
CS47
47n
CS49
10u
RS42
3k3
TS04
BC848
TS15
BC848
RS50
1k
LS02
5vht
RS53
6k8
RS61
1.0k
CS55
10u
CS51
3,9n
RS54
27k
RS59
15k
TS05
BC848
CS52
470u
RS55
2k7
CW44
12n
GND5
CS45
100n
RS41
820R
CW16
5n6
CS48
470u
RS48
150R
5V
IS09
TCE2ACU
RS89
10K
CW12
10n
GND10
RW22
6k8
12VB
CS94
1u
SCART INPUT
RW23
6k8
CS93
1u
IS07
TDA6612
CW02
10u
CW01
10u
CW05
u47
RW20
270R
RW21
270R
CS84
1u
CS86
3n3
CS88
100n
CS83
1u
CS85
680p
RW24
56K
CS89
1n8
CS90
1n8
RW40
1K0
Inf
RW41
1k0
Inf
CS91
1u
CW38
1n
CW37
1n
CS92
1u
CS95
22n
CS96
22n
CS97
6n8
CS98
6n8
CS99
10u
GND12
RW29
100R
RW30
100R
CW32
47u
CW31
47u
HEADPHONE OUTPUT
AUDIO OUTPUT
SCART OUTPUT
L.H.C.
R.H.C.
CW46
1000u
RW70
15R
RW69
15R
CW58
3n3
CW59
3n3
DTR
CLK
CW09
3n3
GND13
CW40
2n2
CW39
2n2
CW41
2n2
RW60
5k6
RW56
22R
CW51
4u7
TS13
BC858
RW57
150R
TS12
BC337
RW59
33k
RW58
1k0
CW11
330u
RW67
33R
CW50
4u7
RW61
5k6
TS11
BC858
RW64
22R
CW64
2200u
RW63
150R
TS08
BC337
RW55
33k
RW62
1k0
CW10
330u
RW66
33R
CW63
3n3
CW62
3n3
GND1
GND12
GND13
GND13
GND12
BS01
BS02*1
LHC.BCK
BS02*2
RHC.BCK
BS02*3
LHC.EXT
BS04
LHC.INT
BS02*4
RHC.EXT
BS03
RHC.INT.
BS05

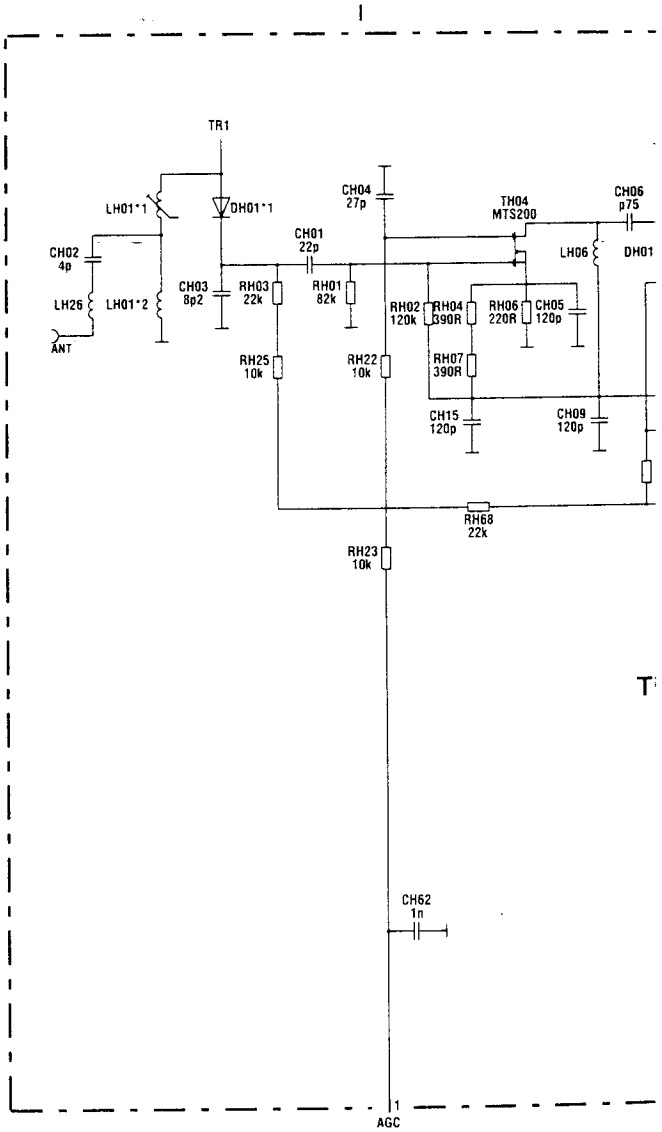

TUNER
UHF
VHF
PLL
IF
PIF
SIF
TO AUP
TO CLP
TO DFP
CVBS1
REF
RFSTD
TUNER
IF
MARKET
RFP 7757
I
MTP MM2015
IF2145
NICAM I

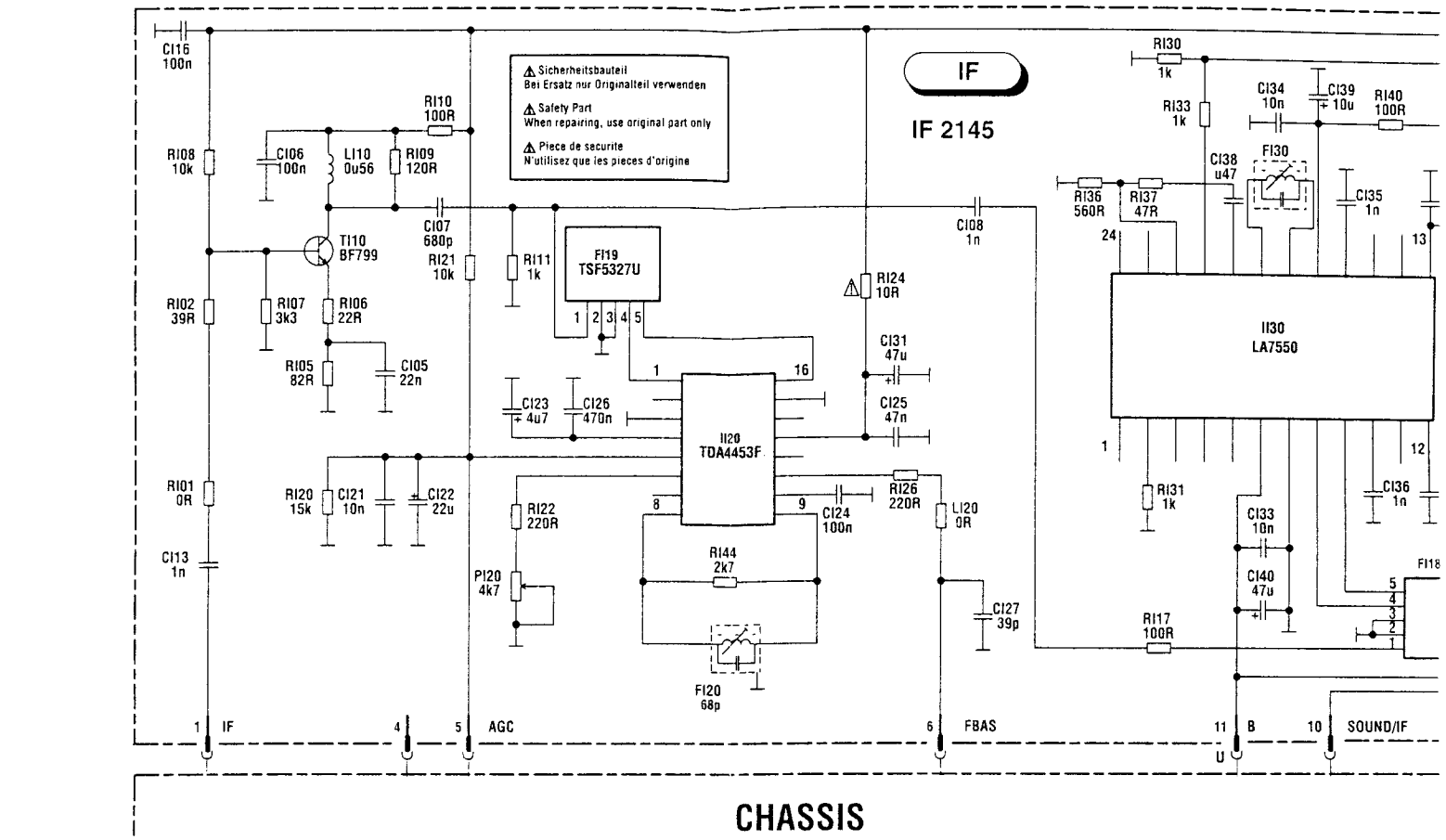

IF
IF 2132
QI30
TSB5308
FI19
TSF5327
TI10
BF799
II20
TDA4453F
II30
TDA3845
FI20
FI30
PI20
4k7
68p
IF
AGC
FBAS
Sound/IF
UB


RM06 1k5
CM09 330p
RM12 390R
RM09 100k
TM12 BC558A
RM07 10k
RM08 100k
CM08 150p
RM13 13k
RM16 10k
CM17 2u2
TM18 BC5588
RM17 47k
RM18 2M2
TM16 BC548B
RM22 1k8
RM15 820R
RM23 1k2
TO AUP
M12
SIF
CVBS1
MARKET
NICAM I
TO CLP
M5
CK
D
TO DFP
+13V
+UV

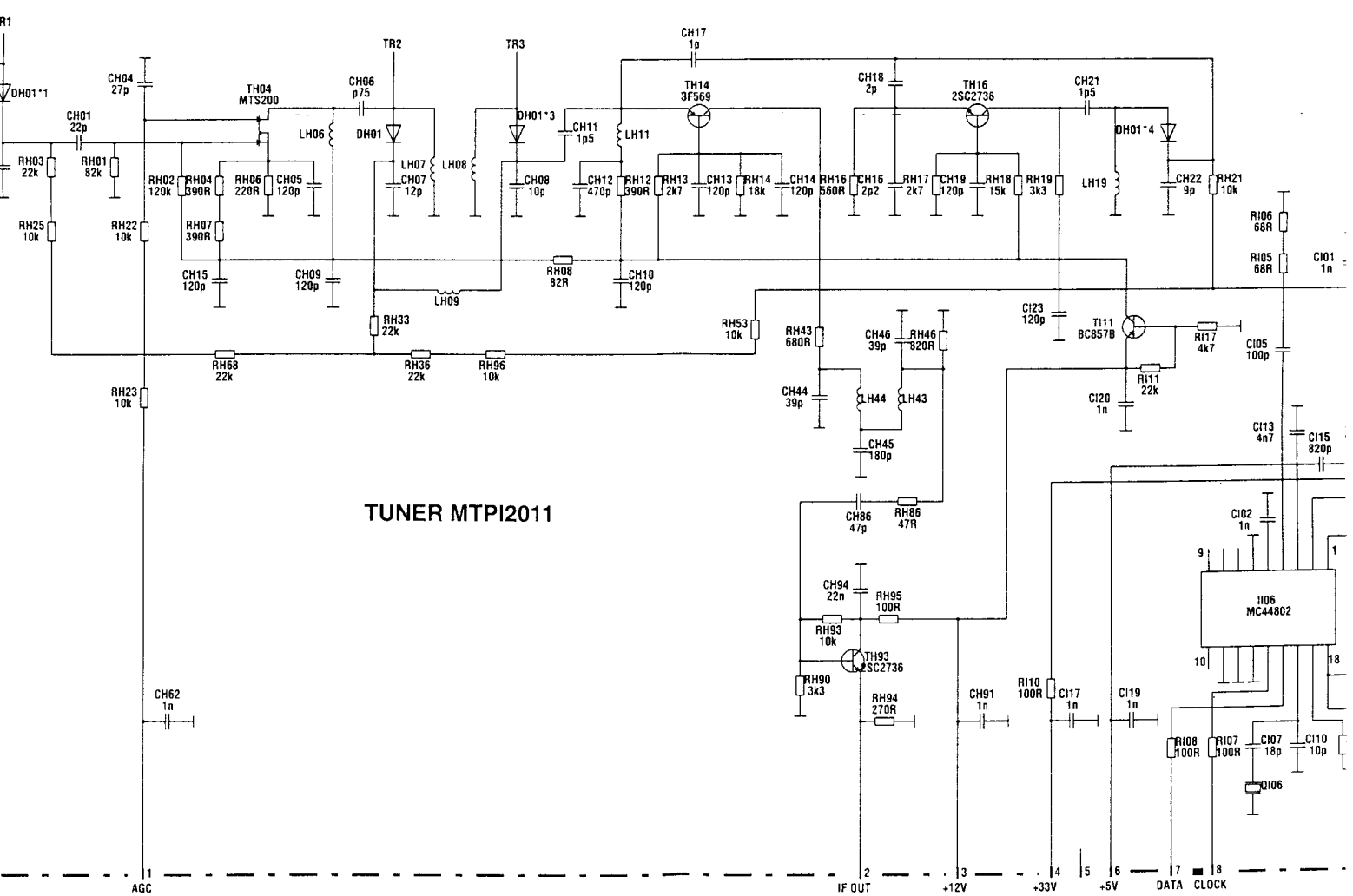

QI30
TSB5308
1
RI17
100R
1
16
II30
TDA3845
CI31
10u
8
9
RI30
270R
CI41
100n
RI40
10R
CI40
47u
FI30
68p
CI27
39p
CI32
47p
10
11
Sound/IF
UB

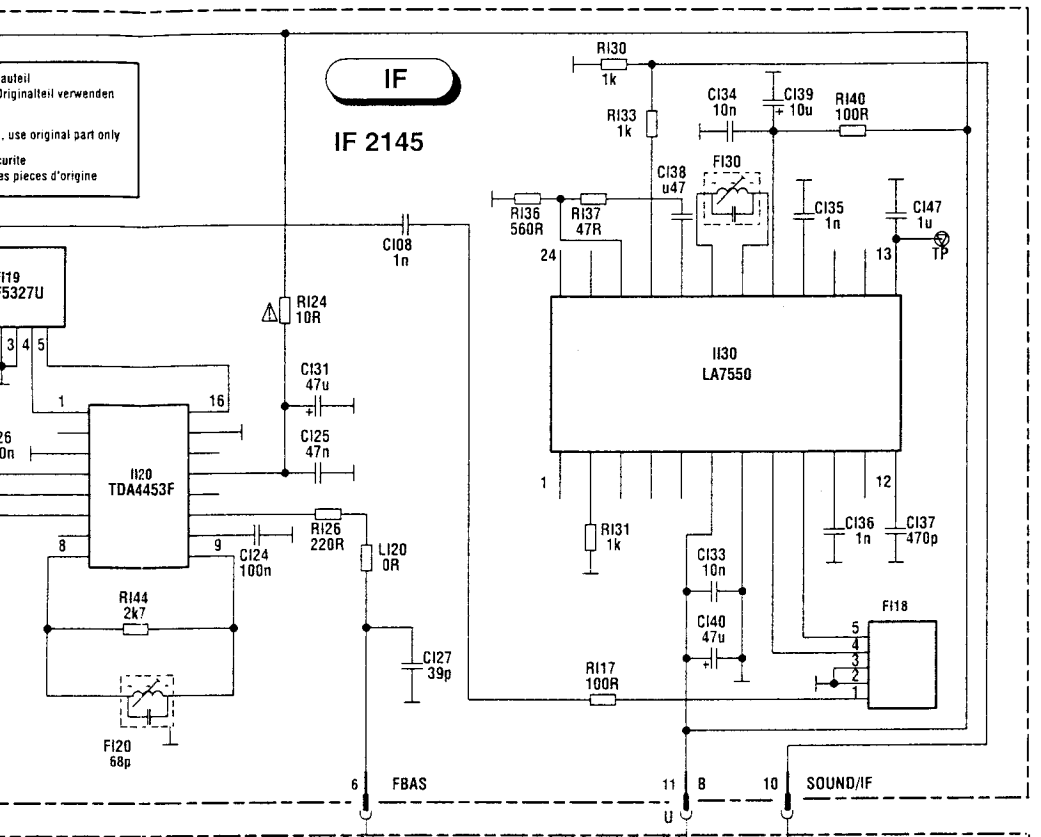

CI16
100n
RI08
10k
CI06
100n
LI10
0u56
TI10
BF799
RI02
39R
RI07
3k3
RI06
22R
RI05
82R
RI01
0R
CI13
1n
RI20
15k
CI21
10n
1
IF
4


TR1
LH01*1
DH01*1
CH04
27p
TH04
MTS200
CH06
p75
LH06
DH01
CH02
4p
CH01
22p
LH26
LH01*2
CH03
8p2
RH03
22k
RH01
82k
RH02
120k
RH04
390R
RH06
220R
CH05
120p
ANT
RH25
10k
RH22
10k
RH07
390R
CH15
120p
CH09
120p
RH68
22k
RH23
10k
CH62
1n
1
AGC

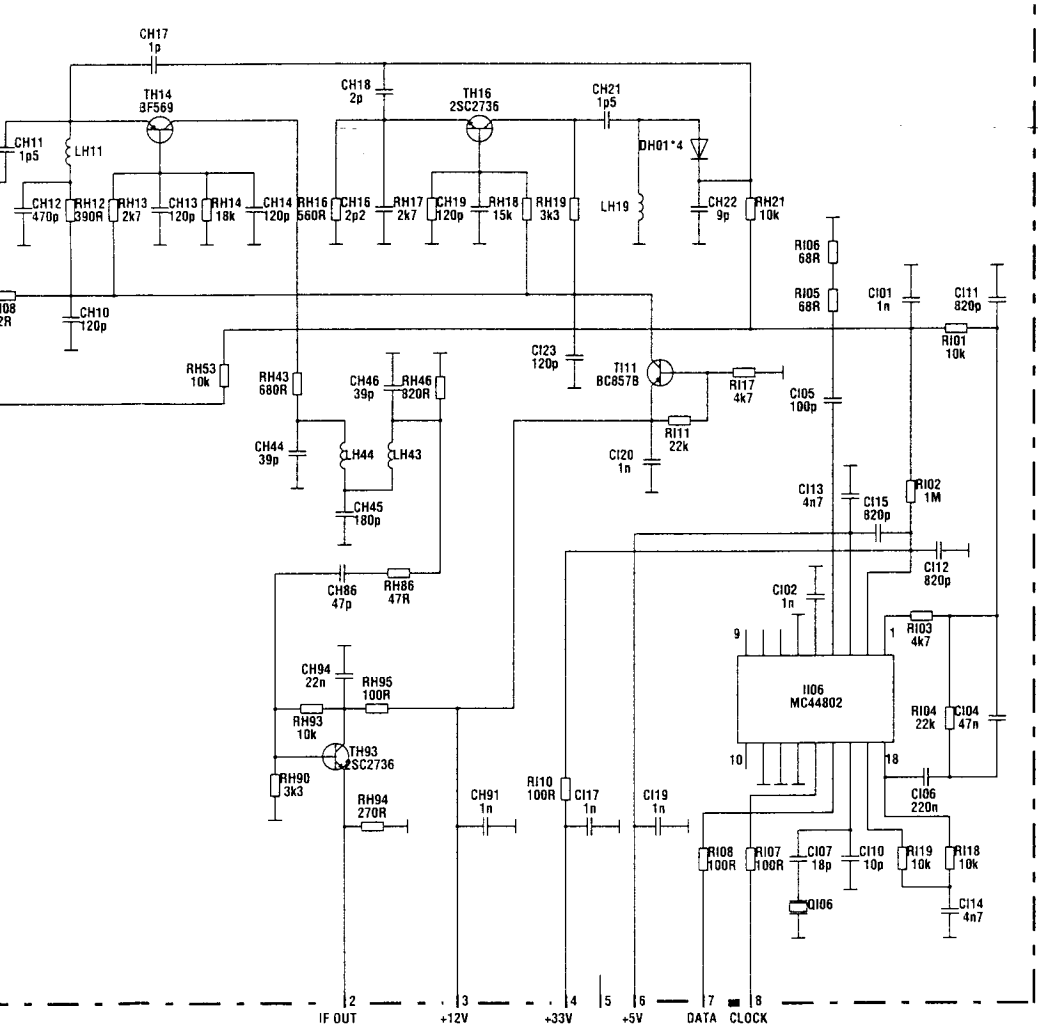

IF
IF 2145
⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden
⚠ Safety Part
When repairing, use original part only
⚠ Piece de securite
N'utilisez que les pieces d'origine
CI16 100n
RI10 100R
RI08 10k
CI06 100n
LI10 0u56
RI09 120R
CI07 680p
TI10 BF799
RI21 10k
RI11 1k
FI19 TSF5327U
RI02 39R
RI07 3k3
RI06 22R
RI05 82R
CI05 22n
CI23 4u7
CI26 470n
II20 TDA4453F
RI01 0R
RI20 15k
CI21 10n
CI22 22u
CI13 1n
RI22 220R
PI20 4k7
RI144 2k7
FI20 68p
CI08 1n
RI24 10R
CI31 47u
CI25 47n
RI26 220R
LI20 0R
CI24 100n
CI27 39p
RI30 1k
RI33 1k
CI34 10n
CI39 10u
RI40 100R
CI38 u47
FI30
RI36 560R
RI37 47R
CI35 1n
II30 LA7550
RI31 1k
CI33 10n
CI40 47u
CI36 1n
RI17 100R
1 IF
4
5 AGC
6 FBAS
11 B U
10 SOUND/IF

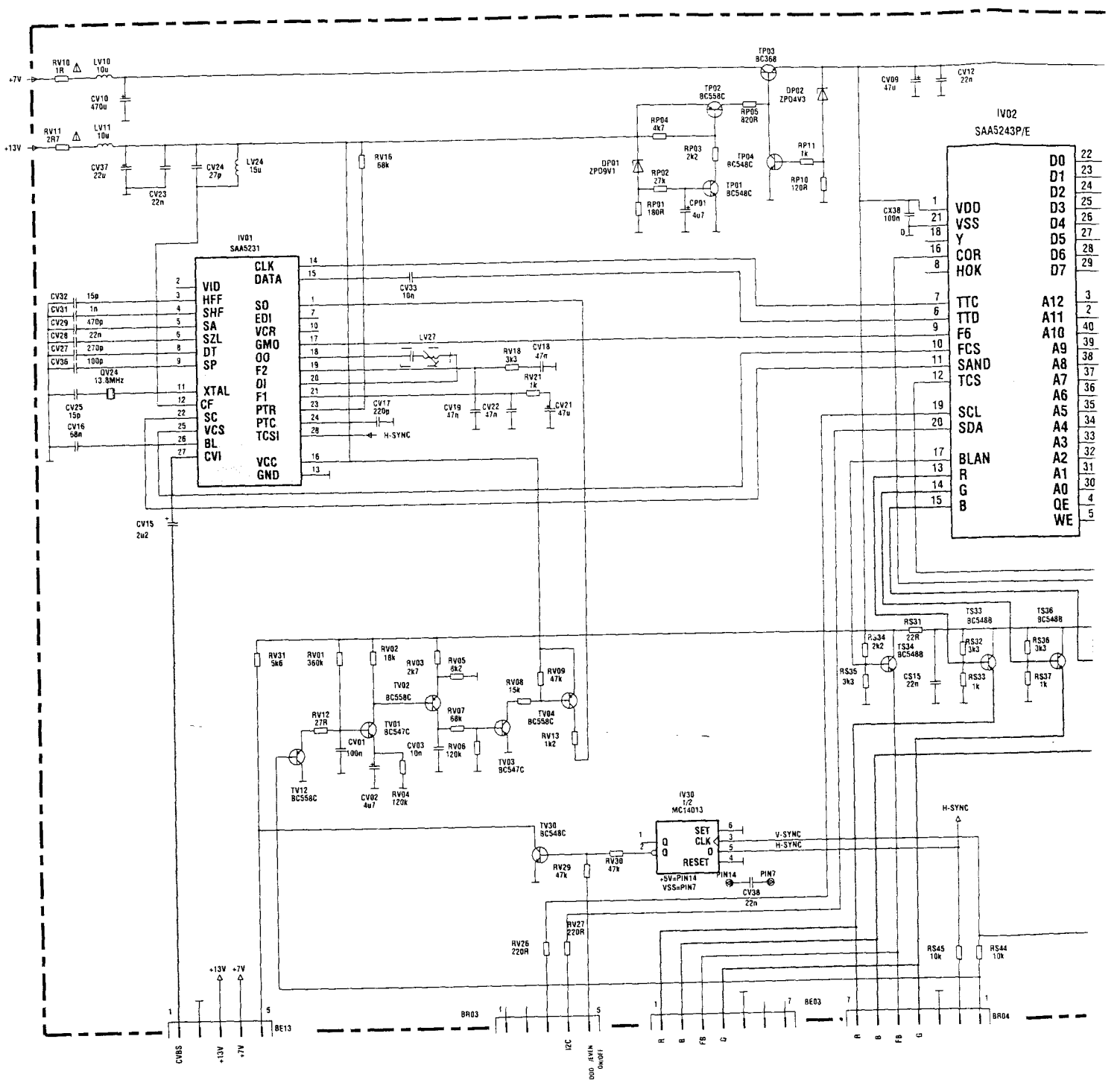
CHASSIS

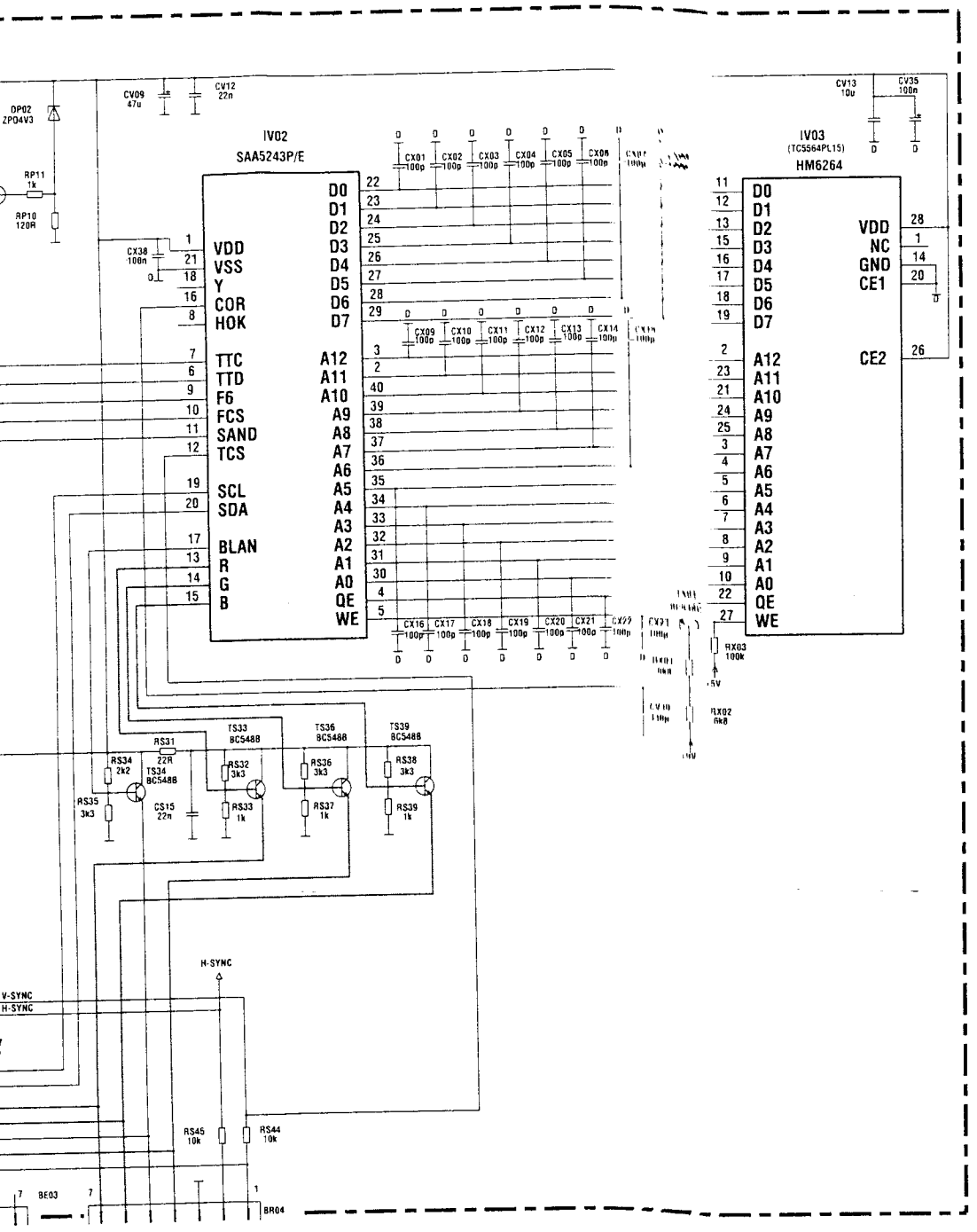

TUNER MTPI2011
DH01*1
CH04 27p
CH01 22p
TH04 MTS200
CH06 p75
TR2
TR3
DH01
DH01*3
CH17 1p
TH14 3F569
CH18 2p
TH16 2SC2736
CH21 1p5
DH01*4
RH03 22k
RH01 82k
RH02 120k
RH04 390R
RH06 220R
CH05 120p
LH06
LH07
CH07 12p
LH08
CH08 10p
CH11 1p5
LH11
CH12 470p
RH12 390R
RH13 2k7
CH13 120p
RH14 18k
CH14 120p
RH16 560R
CH16 2p2
RH17 2k7
CH19 120p
RH18 15k
RH19 3k3
LH19
CH22 9p
RH21 10k
RH25 10k
RH22 10k
RH07 390R
CH15 120p
CH09 120p
LH09
RH08 82R
CH10 120p
RH33 22k
RH68 22k
RH36 22k
RH96 10k
RH23 10k
RH53 10k
RH43 680R
CH46 39p
RH46 820R
CH44 39p
LH44
LH43
CH45 180p
CH86 47p
RH86 47R
CH62 1n
CH94 22n
RH95 100R
RH93 10k
TH93 SC2736
RH90 3k3
RH94 270R
CH91 1n
RI10 100R
CI17 1n
CI19 1n
II06 MC44802
RI08 100R
RI07 100R
CI07 18p
CI10 10p
QI06
RI06 68R
RI05 68R
CI01 1n
CI23 120p
TI11 BC857B
RI17 4k7
CI05 100p
RI11 22k
CI20 1n
CI13 4n7
CI15 820p
CI02 1n
1 AGC
2 IF OUT
3 +12V
4 +33V
5
6 +5V
7 DATA
8 CLOCK

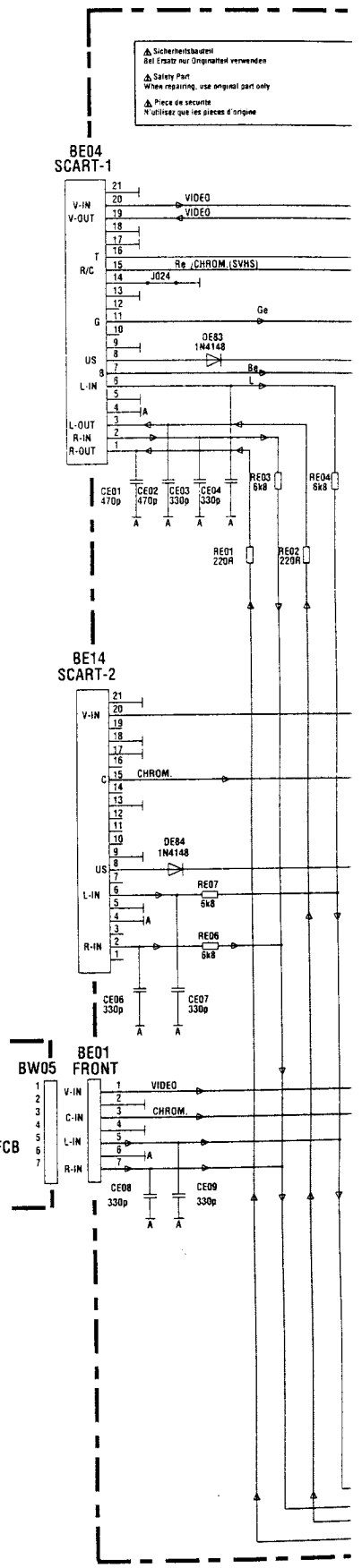

IF
IF 2145
auteil
Originalteil verwenden
, use original part only
curite
es pieces d'origine
RI30 1k
RI33 1k
CI34 10n
CI39 10u
RI40 100R
CI38 u47
FI30
RI36 560R
RI37 47R
CI35 1n
CI47 1u
TP
CI08 1n
RI24 10R
CI31 47u
CI25 47n
II20 TDA4453F
RI26 220R
LI20 0R
CI24 100n
RI44 2k7
FI20 68p
CI27 39p
II30 LA7550
RI31 1k
CI33 10n
CI40 47u
CI36 1n
CI37 470p
FI18
RI17 100R
6 FBAS
11 8 10 SOUND/IF

CHASSIS


CH17 1p
TH14 BF569
CH18 2p
TH16 2SC2736
CH21 1p5
DH01*4
CH11 1p5
LH11
CH12 470p
RH12 390R
RH13 2k7
CH13 120p
RH14 18k
CH14 120p
RH16 560R
CH16 2p2
RH17 2k7
CH19 120p
RH18 15k
RH19 3k3
LH19
CH22 9p
RH21 10k
CH10 120p
RH06 68R
RH05 68R
CI01 1n
CI11 820p
RI01 10k
RH53 10k
RH43 680R
CH46 39p
RH46 820R
CI23 120p
TI11 BC857B
RI17 4k7
CI05 100p
RI11 22k
CH44 39p
LH44
LH43
CI20 1n
CH45 180p
CI13 4n7
CI15 820p
RI02 1M
CH86 47p
RH86 47R
CI12 820p
CI02 1n
RI03 4k7
CH94 22n
RH95 100R
RH93 10k
TH93 2SC2736
II06 MC44802
RI04 22k
CI04 47n
RH90 3k3
RH94 270R
CH91 1n
RI10 100R
CI17 1n
CI19 1n
CI06 220n
RI08 100R
RI07 100R
CI07 18p
CI10 10p
RI19 10k
RI18 10k
QI06
CI14 4n7
2 IF OUT
3 +12V
4 +33V
5
6 +5V
7 DATA
8 CLOCK


IV01
SAA5231
CLK
DATA
VID
HFF
SHF
SA
SZL
DT
SP
XTAL
CF
SC
VCS
BL
CVI
SO
EDI
VCR
GMO
OO
F2
OI
F1
PTR
PTC
TCSI
VCC
GND
IV02
SAA5243P/E
VDD
VSS
Y
COR
HOK
TTC
TTD
F6
FCS
SAND
TCS
SCL
SDA
BLAN
R
G
B
D0
D1
D2
D3
D4
D5
D6
D7
A12
A11
A10
A9
A8
A7
A6
A5
A4
A3
A2
A1
A0
QE
WE
IV30
1/2
MC14013
SET
CLK
RESET
V-SYNC
H-SYNC
+7V
+13V
CVBS
I2C
BE13
BR03
BR04
BE03


IV02
SAA5243P/E
VDD
VSS
Y
COR
HOK
TTC
TTD
F6
FCS
SAND
TCS
SCL
SDA
BLAN
R
G
B
D0
D1
D2
D3
D4
D5
D6
D7
A12
A11
A10
A9
A8
A7
A6
A5
A4
A3
A2
A1
A0
QE
WE
IV03
(TC5564PL15)
HM6264
VDD
NC
GND
CE1
CE2
H-SYNC
V-SYNC
H-SYNC
BE03
BR04


BE04
SCART-1
V-IN
V-OUT
R/C
G
B
L-IN
L-OUT
R-IN
R-OUT
VIDEO
VIDEO
Re /CHROM.(SVHS)
J024
DE83
1N4148
BE14
SCART-2
V-IN
C
US
L-IN
R-IN
CHROM.
DE84
1N4148
BE01
FRONT
BW05
FCB
V-IN
C-IN
L-IN
R-IN
VIDEO
CHROM.

LIST OF ABBREVIATIONS USED
LISTE DES ABREVIATIONS
ERKLÄRUNG DER ABKÜRZUNGEN
LISTA DE ABREVIATURAS EMPLEADAS EN LOS ESQUEMAS
ELENCO DELLE ABBREVIAZIONI UTILIZZATE

A1: Low frequency (audio) internal signal
Signal démodulé (audio)
Ton NF-Signal
Segnal de baja frecuencia (sonido) interna
Segnale a bassa frequenza (audio) interno

AF : Low frequency (audio) exterior signal
Signal basse fréquence audio externe
Ton NF-Signal
Segnal de baja frecuencia (sonido) externo
Segnale a bassa frequenza (audio) esterno

AF1 : Low frequency (audio) internal signal
Signal démodulé (audio)
Ton NF-Signal
Segnal de baja frecuencia (sonido) interna
Segnale a bassa frequenza (audio) interno

AUE : Exterior audio-visual switching
Commande de commutation audio-visuel extérieur
Audio/Video-Fremdeingangs-Umschaltung
Mando de conmutacion audiovisual externo
Commando di commutazione audiovisuale esterno

AVS : Scart socket slow switching
Commande commutation lente prise péritélévision
Langsame Umschaltung Euro-AV-Buschse
Conmutacion redfred toma peritelevision
Commutazione lente presa peritelevisione

B' : Regulation and switching power supply command signal
Signal de commande de l'alimentation à découpage et régulation
Steversignal desSchaltnetzeils und Regulierung
Senalde mando de la alimentacion ondulator y regulacion
Segnale di commando alimentazione a sezionamento e regolazione

BCL : Ray current maesurement
Mesure du courant de faisceaux
Strahlstrom-Messung
Medida de corriente de haces
Misura di corrente di fascio

BD1 : Intermedia B I.L' frequency switching
Commutation de la fréquence intermediaire B I.L'
Umschaltung der ZF des B I.L'
Conmutacion de la frecuencia B I.L'
Commutazione frequenza intermedia B I.L'

CVBS : Receiver video (internal) - SCI / DVT
Vidéo du récepteur (interne) - SCI / DVT
Internes FBAS-Signal - SCI / DVT
Video del receptor (interna) - SCI / DVT
Video ricevitore (interno) - SCI / DVT

CVBS1 : Receiver video (internal) - IF....
Vidéo du récepteur (interne) - IF....
Internes FBAS-Signal - IF....
Video del receptor (interna) - IF....
Video ricevitore (interno) - IF....

IF : Intermedia frequency
Fréquence intermédiaire
ZF
Frecuencia intermedia
Frequenza intermedia

- H : Line return pulse
Impulsion de retour ligne
Zeilerucklauf-Impuls
Impulso de retorno linea
Impulso di ritorno linea

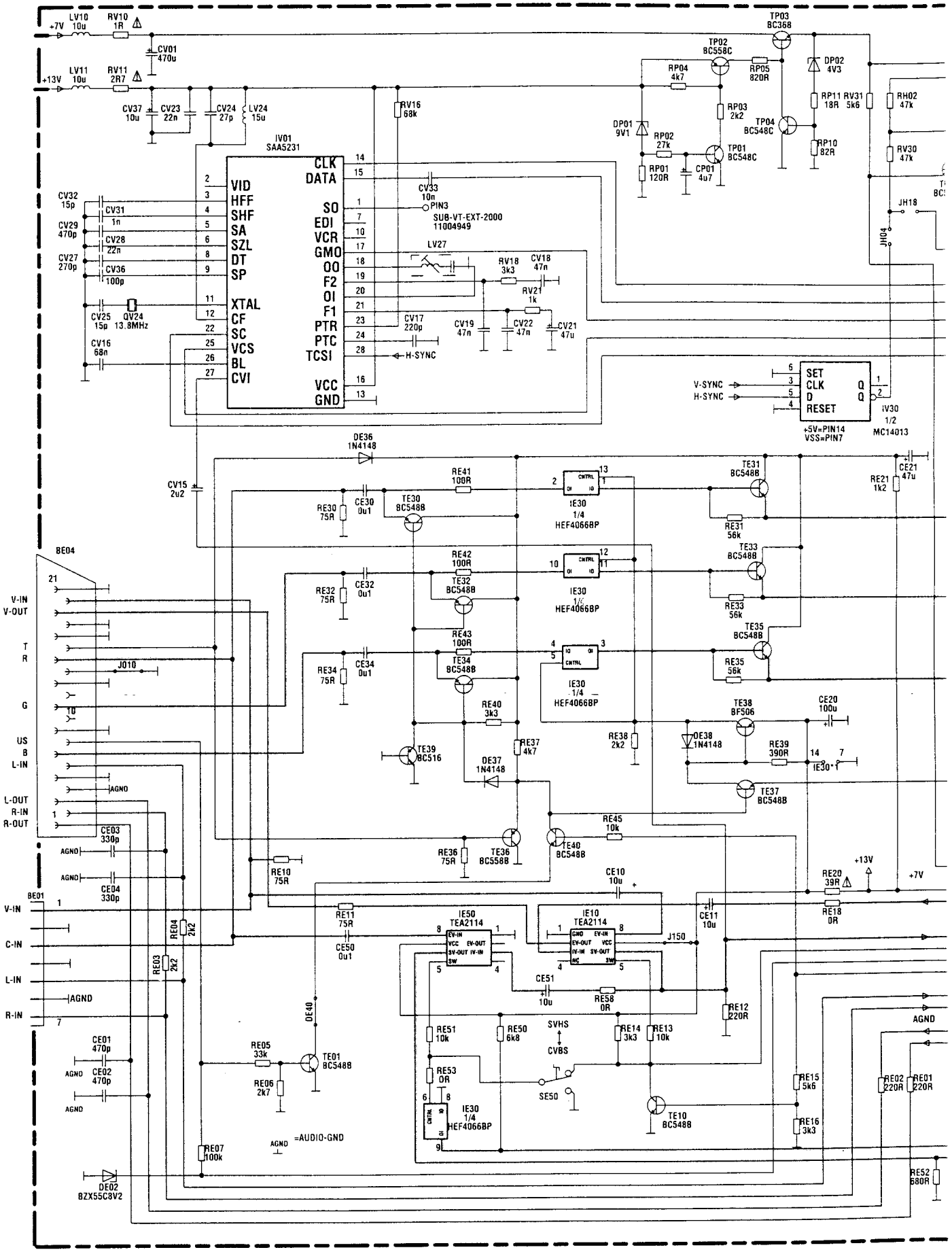
MUTE : Mute control and probe stop
Commande silencieux son et arrêt de la recherche
Signal der Tonunterdrückung und Suchlauf-Stop
Mando silenciamiento sonido y parada de busqueda
Commando esclusione audio e interruzione ricerca

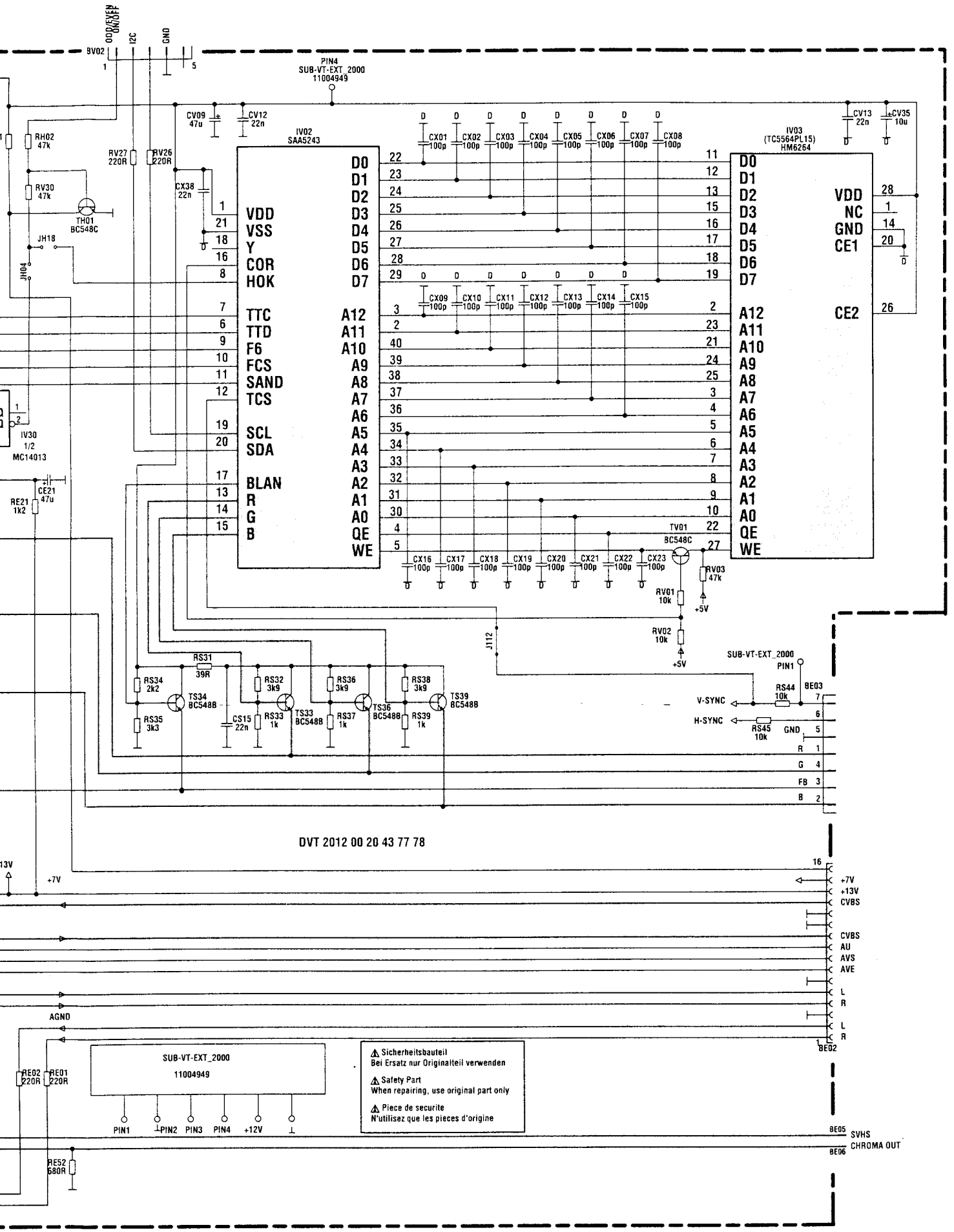
P : IV01 (TA 8659 N) intergrated circuit supply
Alimentation du circuit intégré IV01 (TA 8659 N)
Speispannung des IC- IV01 (TA 8659 N)
Alimentacio circuito intergrado IV01 (TA 8659 N)
Alimentazione circuito integrato IV01 (TA 8659 N)

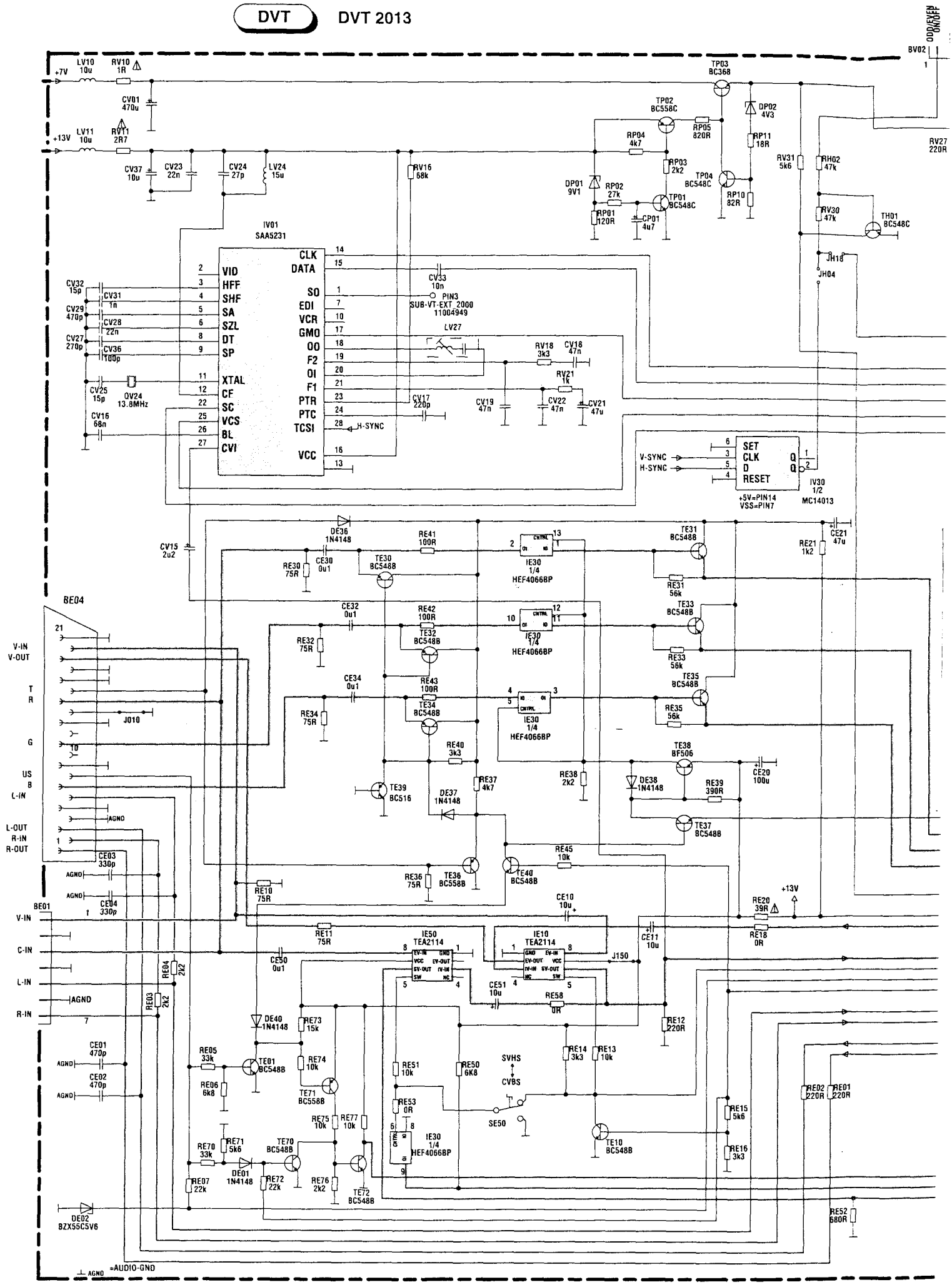
STD : Norm switching
Commutation de normes
Empfangsnorm-Umschaltung
Conmutacion de norma
Commutazione di norma

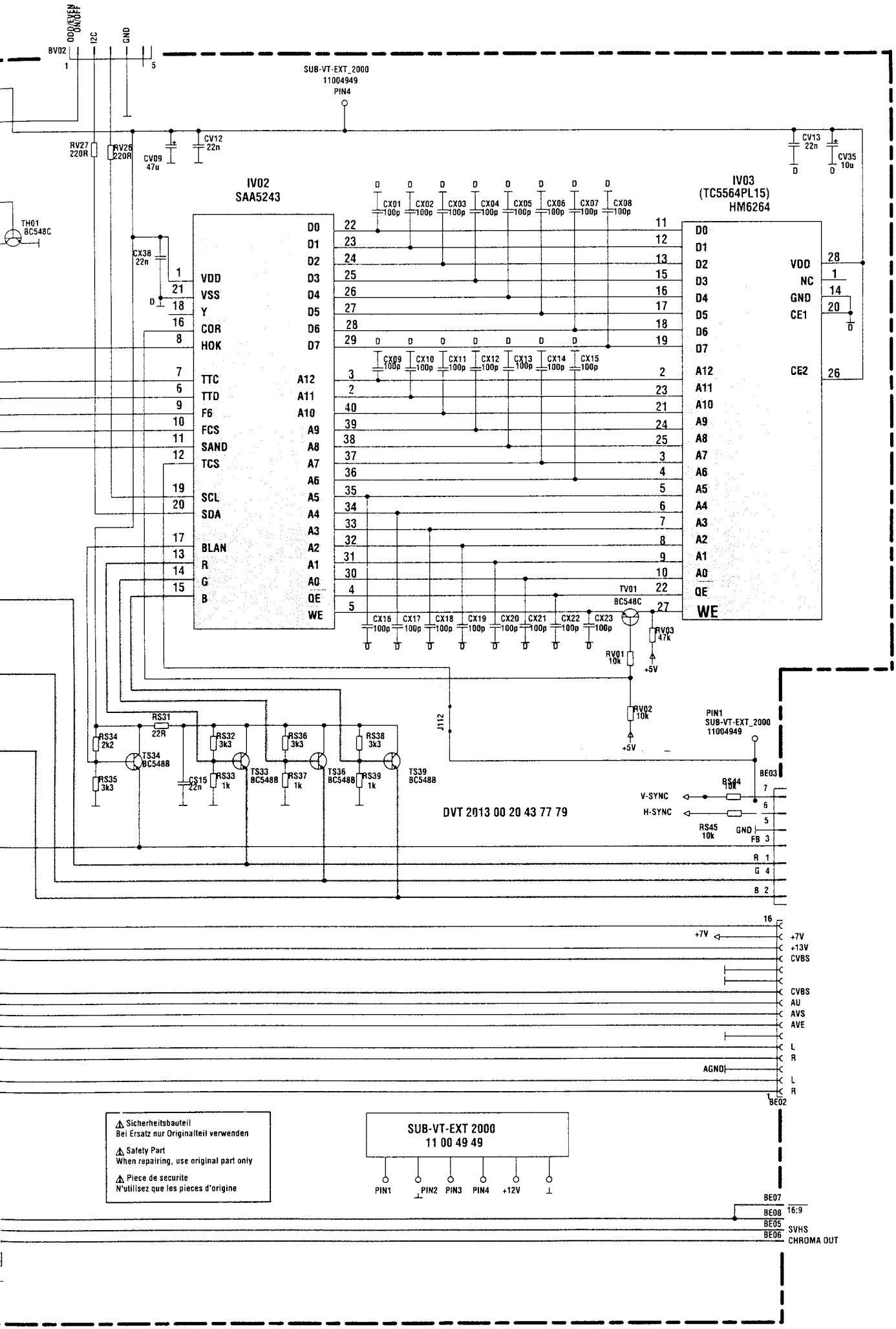
- V : Vertical pulse
Impulsion verticale
Vertikal-Impuls
Impulso verical
Impulso verticale

TH : Line pulse
Impulsion ligne
Horizontal-Impuls
Impulso linea
Impulso linea

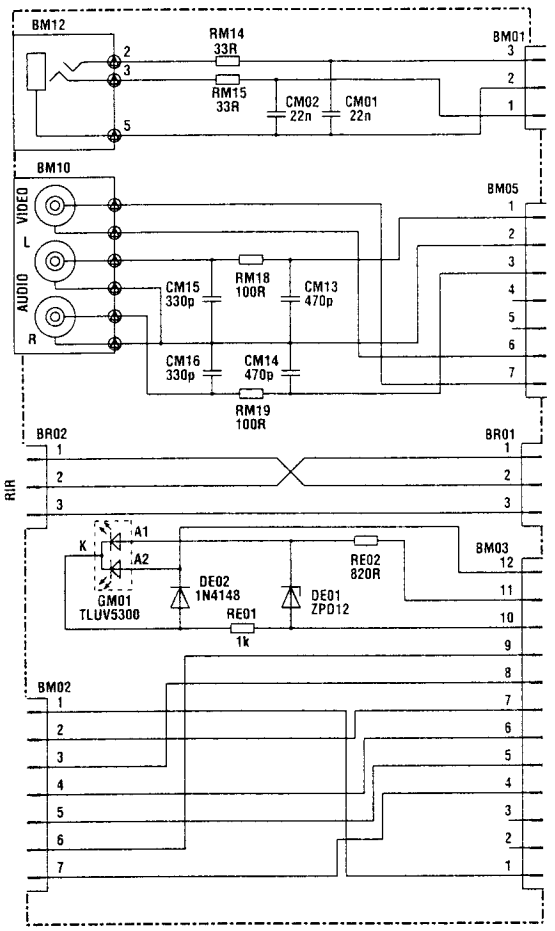

IV01
SAA5231
VID
HFF
SHF
SA
SZL
DT
SP
XTAL
CF
SC
VCS
BL
CVI
CLK
DATA
SO
EDI
VCR
GMO
OO
F2
OI
F1
PTR
PTC
TCSI
VCC
GND
SUB-VT-EXT-2000
11004949
PIN3
H-SYNC
V-SYNC
IV30
1/2
MC14013
+5V=PIN14
VSS=PIN7
IE30
1/4
HEF4066BP
IE50
TEA2114
IE10
TEA2114
SVHS
CVBS
SE50
=AUDIO-GND
BE04
BE01
J010
J150
JH04
JH18
V-IN
V-OUT
T
R
G
US
B
L-IN
L-OUT
R-IN
R-OUT
C-IN
AGND
+7V
+13V


BV02
I2C
GND
PIN4
SUB-VT-EXT_2000
11004949
IV02
SAA5243
VDD
VSS
Y
COR
HOK
TTC
TTD
F6
FCS
SAND
TCS
SCL
SDA
BLAN
R
G
B
D0
D1
D2
D3
D4
D5
D6
D7
A12
A11
A10
A9
A8
A7
A6
A5
A4
A3
A2
A1
A0
QE
WE
IV03
(TC5564PL15)
HM6264
VDD
NC
GND
CE1
CE2
CV09 47u
CV12 22n
CV13 22n
CV35 10u
RH02 47k
RV27 220R
RV26 220R
RV30 47k
TH01 BC548C
JH18
JH04
CX38 22n
IV30 1/2 MC14013
CE21 47u
RE21 1k2
CX01 100p
CX02 100p
CX03 100p
CX04 100p
CX05 100p
CX06 100p
CX07 100p
CX08 100p
CX09 100p
CX10 100p
CX11 100p
CX12 100p
CX13 100p
CX14 100p
CX15 100p
CX16 100p
CX17 100p
CX18 100p
CX19 100p
CX20 100p
CX21 100p
CX22 100p
CX23 100p
TV01 BC548C
RV03 47k
RV01 10k
RV02 10k
+5V
J112
RS31 39R
RS34 2k2
RS32 3k9
RS36 3k9
RS38 3k9
TS34 BC548B
TS33 BC548B
TS36 BC548B
TS39 BC548B
RS35 3k3
CS15 22n
RS33 1k
RS37 1k
RS39 1k
SUB-VT-EXT_2000
PIN1
RS44 10k
RS45 10k
BE03
V-SYNC
H-SYNC
GND
R
G
FB
B
DVT 2012 00 20 43 77 78
13V
+7V
AGND
CVBS
AU
AVS
AVE
L
R
BE02
SUB-VT-EXT_2000
11004949
PIN1
PIN2
PIN3
PIN4
+12V
RE02 220R
RE01 220R
RE52 680R
BE05
SVHS
CHROMA OUT
BE06
Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden
Safety Part
When repairing, use original part only
Piece de securite
N'utilisez que les pieces d'origine


+7V
+13V
LV10 10u
RV10 1R
RV11 2R7
LV11 10u
CV01 470u
CV37 10u
CV23 22n
CV24 27p
LV24 15u
RV16 68k
IV01 SAA5231
VID
HFF
SHF
SA
SZL
DT
SP
XTAL
CF
SC
VCS
BL
CVI
CLK
DATA
SO
EDI
VCR
GMO
OO
F2
OI
F1
PTR
PTC
TCSI
VCC
H-SYNC
CV32 15p
CV31 1n
CV29 470p
CV28 22n
CV27 270p
CV36 100p
CV25 15p
QV24 13.8MHz
CV16 68n
CV33 10n
PIN3 SUB-VT-EXT 2000 11004949
LV27
RV18 3k3
CV18 47n
RV21 1k
CV19 47n
CV22 47n
CV21 47u
CV17 220p
TP03 BC368
TP02 BC558C
DP02 4V3
RP05 820R
RP11 18R
RP04 4k7
RP03 2k2
TP04 BC548C
RP10 82R
DP01 9V1
RP02 27k
TP01 BC548C
RP01 120R
CP01 4u7
RV31 5k6
RH02 47k
RV27 220R
RV30 47k
TH01 BC548C
JH18
JH04
BV02
ODD/EVEN ON/OFF
V-SYNC
H-SYNC
SET
CLK
D
RESET
Q
IV30 1/2 MC14013
+5V=PIN14
VSS=PIN7
CV15 2u2
DE36 1N4148
RE41 100R
RE30 75R
CE30 0u1
TE30 BC548B
IE30 1/4 HEF4066BP
TE31 BC548B
RE31 56k
CE21 47u
RE21 1k2
BE04
CE32 0u1
RE42 100R
RE32 75R
TE32 BC548B
TE33 BC548B
RE33 56k
CE34 0u1
RE43 100R
RE34 75R
TE34 BC548B
TE35 BC548B
RE35 56k
J010
RE40 3k3
TE38 BF506
CE20 100u
TE39 BC516
DE37 1N4148
RE37 4k7
RE38 2k2
DE38 1N4148
RE39 390R
TE37 BC548B
RE45 10k
RE36 75R
TE36 BC558B
TE40 BC548B
RE10 75R
CE10 10u
RE20 39R
+13V
RE18 0R
BE01
V-IN
C-IN
L-IN
AGND
R-IN
RE11 75R
IE50 TEA2114
IE10 TEA2114
CE11 10u
J150
CE50 0u1
CE51 10u
RE58 0R
RE04 2k2
RE03 2k2
DE40 1N4148
RE73 15k
RE12 220R
CE01 470p
CE02 470p
RE05 33k
TE01 BC548B
RE74 10k
TE71 BC558B
RE06 6k8
RE51 10k
RE50 6k8
SVHS
CVBS
RE14 3k3
RE13 10k
RE53 0R
SE50
RE75 10k
RE77 10k
RE70 33k
RE71 5k6
TE70 BC548B
DE01 1N4148
RE72 22k
RE07 22k
RE76 2k2
TE72 BC548B
TE10 BC548B
RE15 5k6
RE16 3k3
RE02 220R
RE01 220R
DE02 BZX55C5V6
RE52 680R
V-IN
V-OUT
T
R
G
US
B
L-IN
L-OUT
R-IN
R-OUT
AGND
=AUDIO-GND


ODD/EVEN
ON/OFF
I2C
GND
BV02
SUB-VT-EXT_2000
11004949
PIN4
IV02
SAA5243
IV03
(TC5564PL15)
HM6264
VDD
VSS
Y
COR
HOK
TTC
TTD
F6
FCS
SAND
TCS
SCL
SDA
BLAN
R
G
B
D0
D1
D2
D3
D4
D5
D6
D7
A12
A11
A10
A9
A8
A7
A6
A5
A4
A3
A2
A1
A0
OE
WE
TH01
BC548C
TV01
BC548C
PIN1
SUB-VT-EXT_2000
11004949
DVT 2013 00 20 43 77 79
V-SYNC
H-SYNC
GND
+5V
+7V
+13V
CVBS
AU
AVS
AVE
AGND
SUB-VT-EXT 2000
11 00 49 49
PIN1
PIN2
PIN3
PIN4
+12V
Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden
Safety Part
When repairing, use original part only
Piece de securite
N'utilisez que les pieces d'origine
SVHS
CHROMA OUT
16:9

FCB FCB 8010



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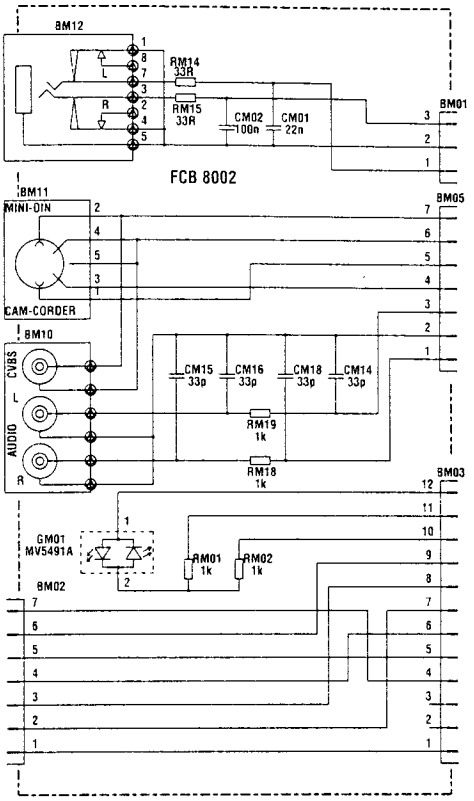

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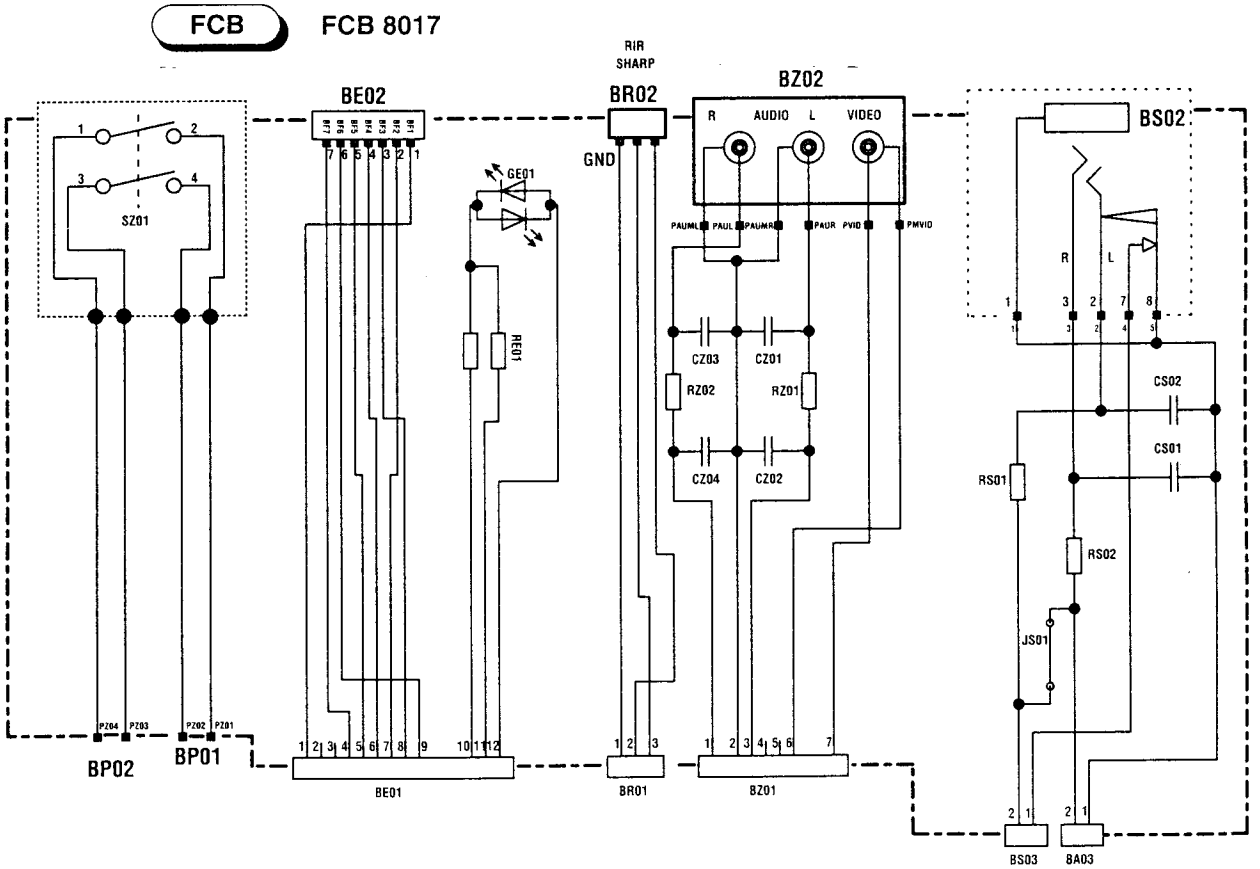
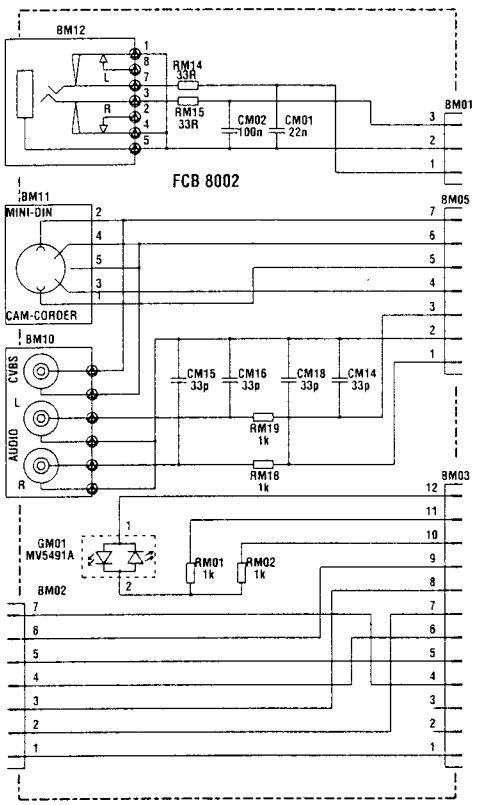
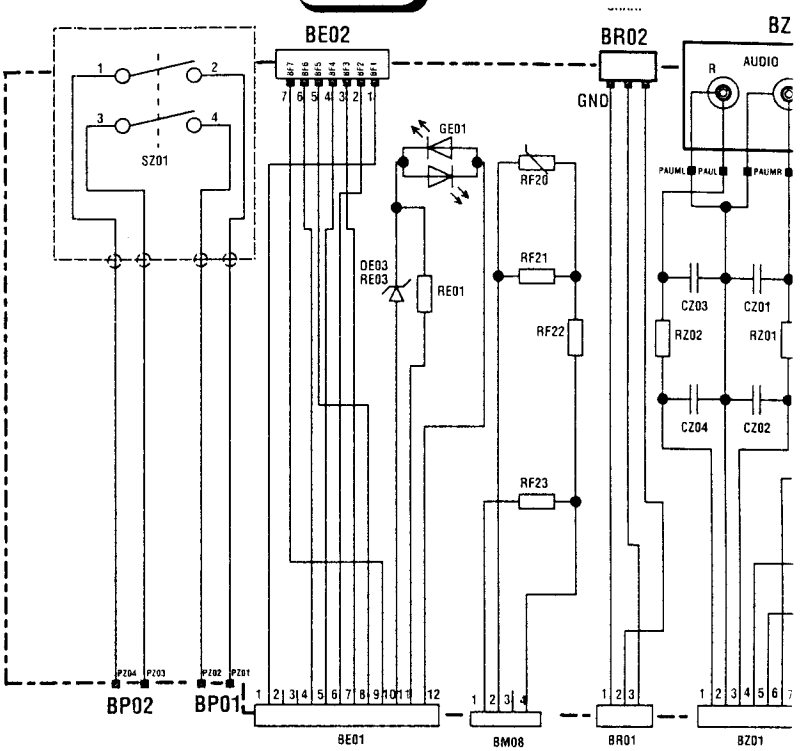
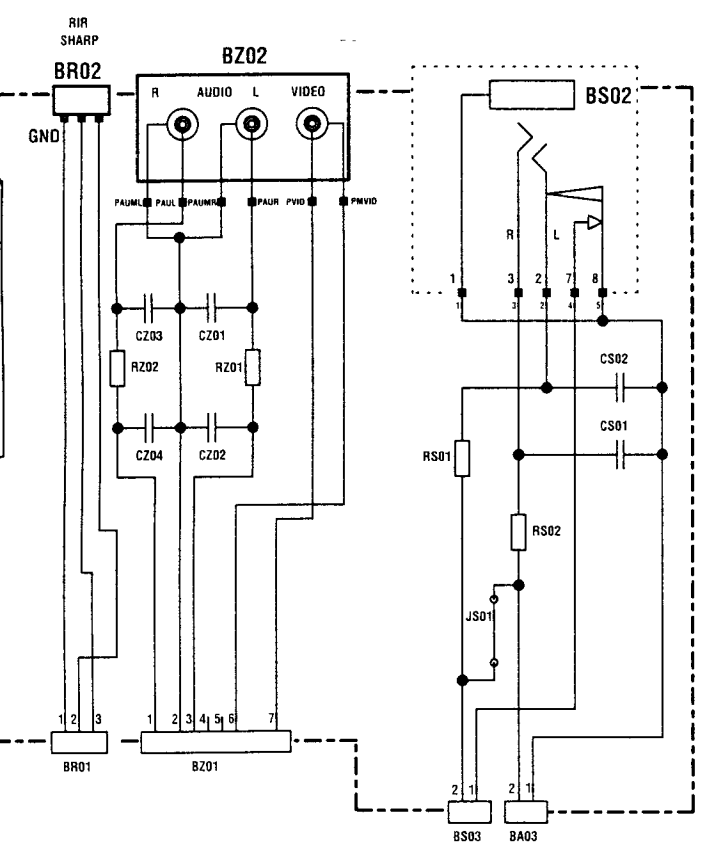


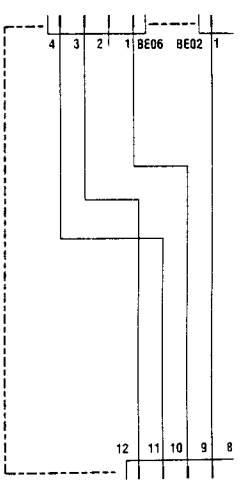
FCB FCB 8002



FCB FCB 8012







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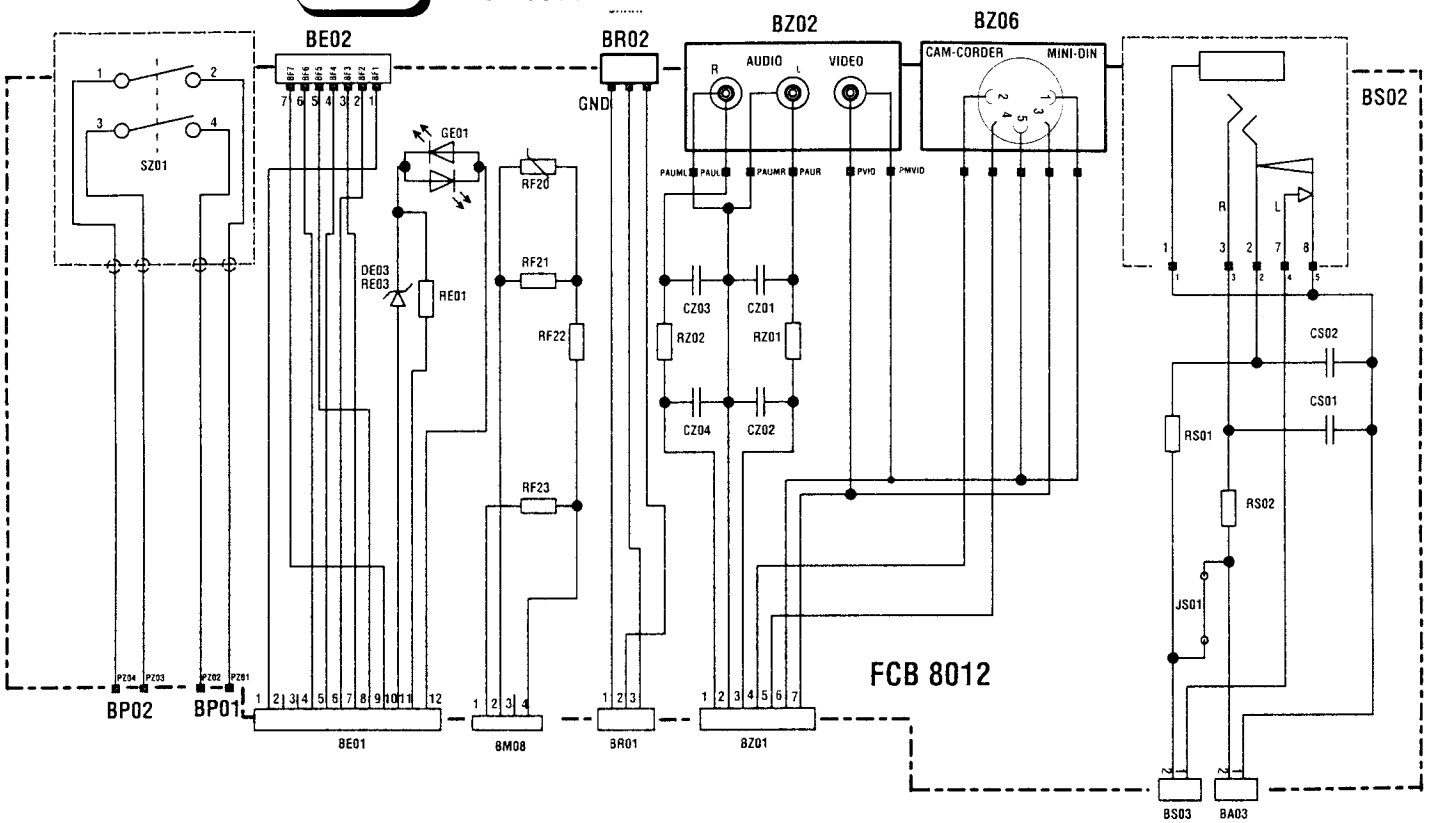

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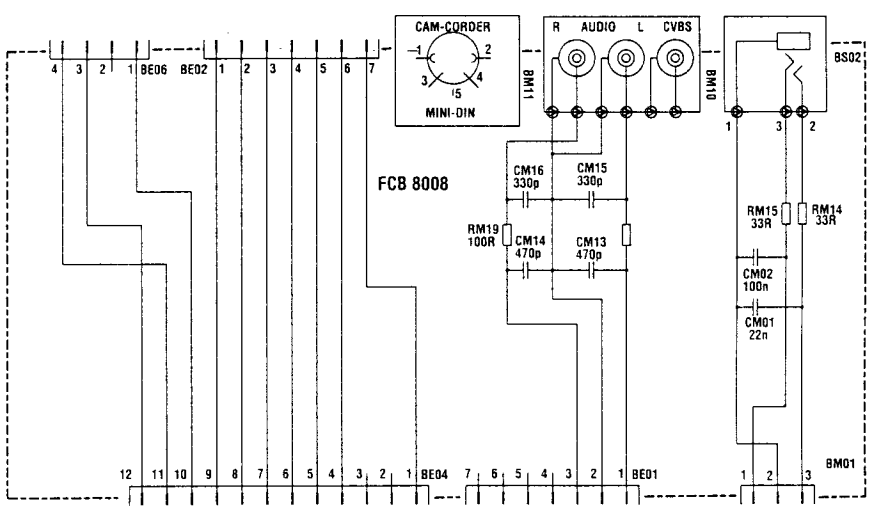
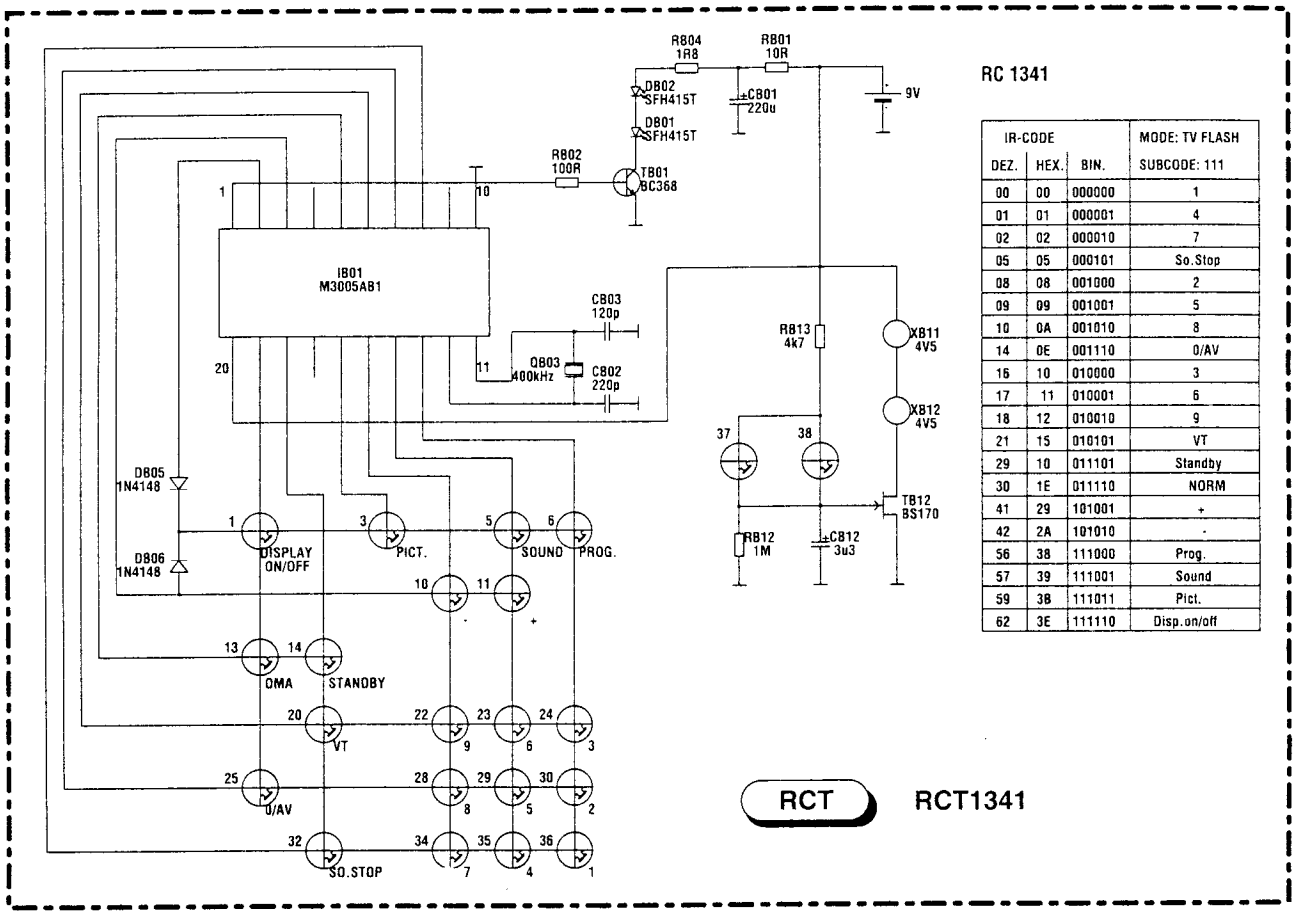
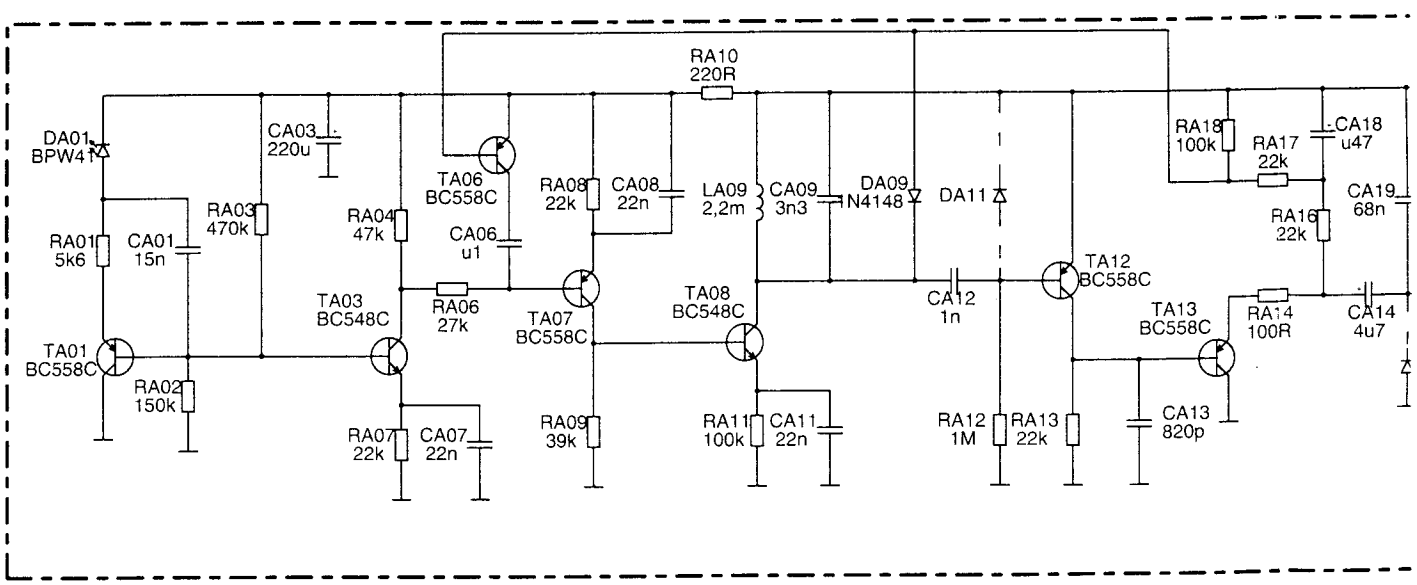




IR-CODE			MODE: TV FLASH
DEZ.	HEX.	BIN.	SUBCODE: 111
00	00	000000	1
01	01	000001	4
02	02	000010	7
05	05	000101	So.Stop
08	08	001000	2
09	09	001001	5
10	0A	001010	8
14	0E	001110	0/AV
16	10	010000	3
17	11	010001	6
18	12	010010	9
21	15	010101	VT
29	1D	011101	Standby
30	1E	011110	NORM
41	29	101001	+
42	2A	101010	-
56	38	111000	Prog.
57	39	111001	Sound
59	3B	111011	Pict.
62	3E	111110	Disp.on/off

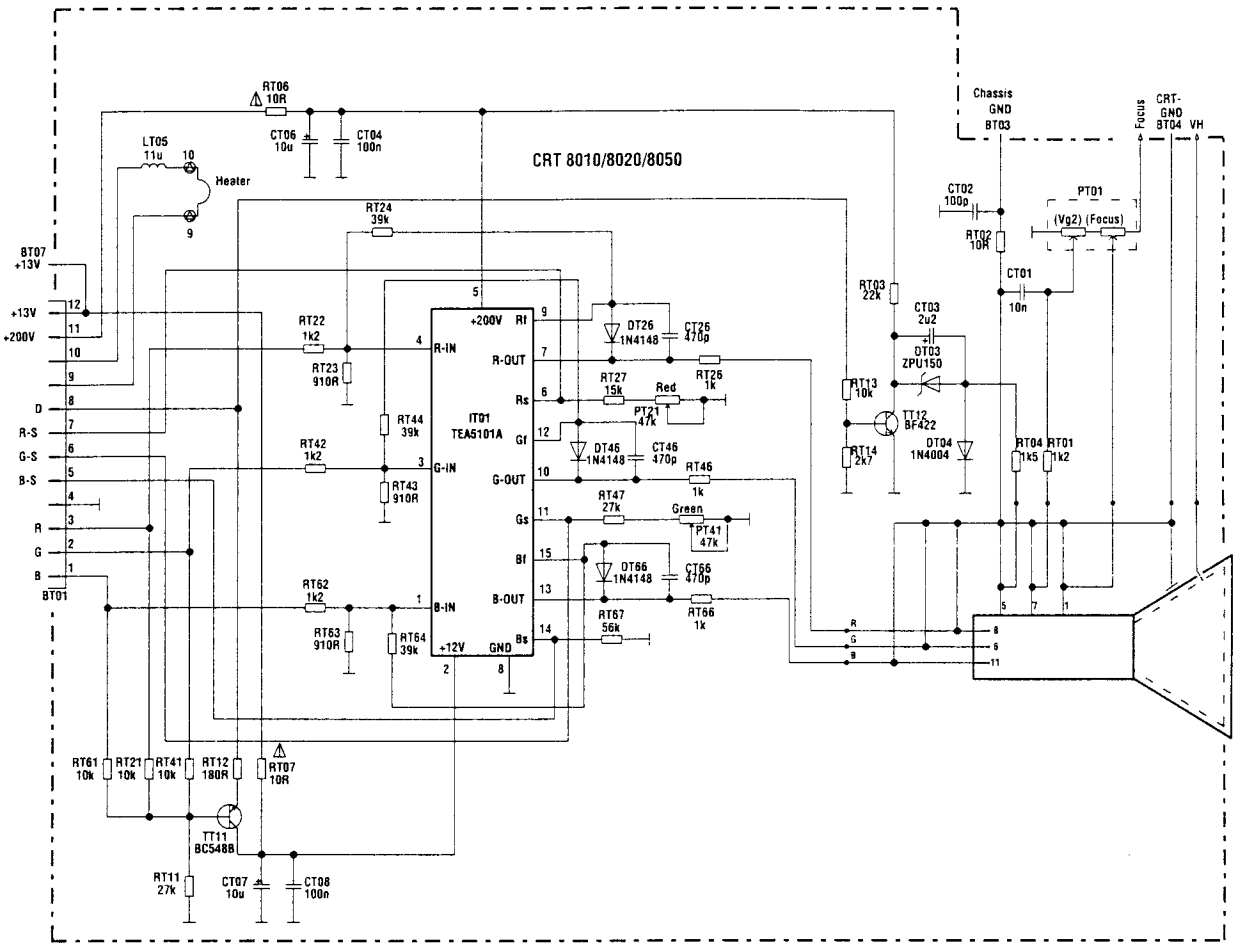
RCT **RCT1341**

RIR **RIR4000/4008**

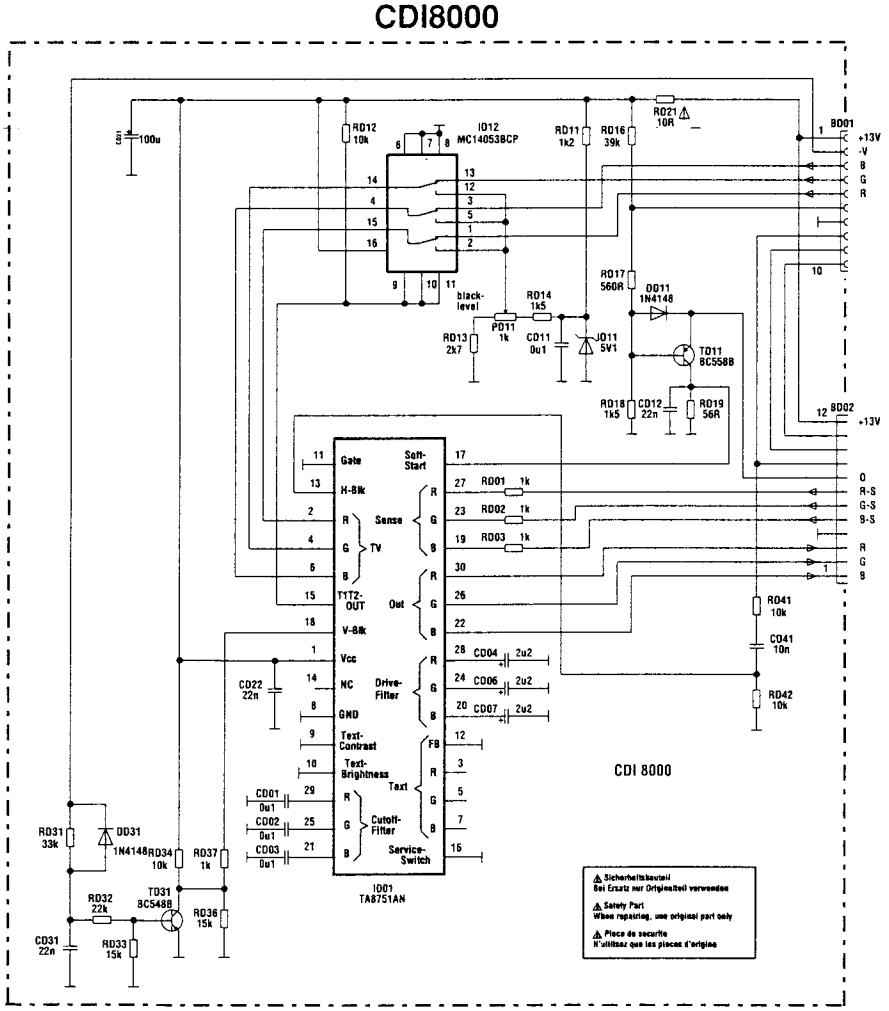


	GB Legend	F Légende	D Zeichernerklärung	E Leyenda	I Leggènda
	On-Off	Marche-Arrêt	Ein-Aus	Encendido-Apagado	Acceso-Spento
	Stand-by	Attente (veille)	Bereitschaft	Espera	Disponible
	Brightness	Luminosité	Helligkeit	Luminosidad	Luminosita
	Contrast	Contraste	Kontrast	Contrasto	Contrasto
	Hue	Teinte	Farbton	Tinta	Tinta
	Colour saturation	Saturation couleur	Farbsättigung	Saturación de color	Saturazione di colore
	Medium	Niveau moyen	Mittelwert	Nivel medio	Livello medio
	Automatic tuning	Recherche automatique	Automatischer Suchlaut	Búsqueda automática	Ricerca automatica
CH	Channel call	Appel canal	Kanalabruf	Llamada canal	Chiamata canale
	Stereo / Mono	Stéréo / Mono	Stereo / Mono	Estereo / Mono	Stereo / Mono
	Fine tuning	Accord fin	Feinabstimmung	Sintonización fina	Sintonizzazione fine
	Output	Sortie d'un signal	Ausgang	Salida de señal	Uscita di segnale
	Input	Entrée d'un signal	Eingang	Entrada de señal	Ingresso di segnalo
	Scart socket	Prise peritélevision	Peri-TV Scart Buchse	Eurotoma	Presa periteievisione
	Horizontal synchronization	Synchronisation horizontale	Horizontal synchronisation	Sincronización horizontal	Sincronizzazione orizzontale
	Vertical synchronization	Synchronisation verticale	Vertikal synchronisation	Sincronización vertical	Sincronizzazione verticale
	Horizontal picture shift	Cadrage horizontal	Bildlage horizontal	Cuadraje horizontal	Correzione orizzontale
	Vertical picture shift	Cadrage vertical	Bildlage vertikal	Cuadraje vertical	Correzione verticale
	Horizontal linearity	Linéarité horizontale	Horizontal Linearität	Linealidad horizontal	Linearita orizzontale
	Vertical linearity	Linéarité verticale	Vertikal Linearität	Linealidad vertical	Linearita verticale
	Picture width	Amplitude horizontale	Bildbreite	Amplitud horizontal	Ampiezza orizzontale
	Picture height	Amplitude verticale	Bildhöhe	Amplitud vertical	Ampiezza verticale
	Focus	Concentration	Fokus	Focus	Focus
	East West Pincushion	Coussin Est-Ouest	Ost-West Kissen	Cojín Este-Oeste	Cuscino Est-Ovest
	East West Pincushion Distortion amplitude	Amplitude coussin Est-Ouest	Bild breite Ost-West Kissen	Amplitud cojín Este-Oeste	Ampiezza cuscino Est-Ovest
	East West trapezium	Trapèze Est-Ouest	Ost-West Trapez	Trapecio Este-Oeste	Trapezio Est-Ovest
	Colour bars	Mire de barres	Farbbalken	Carta de barras	Mira di barre
	Video	Vidéo	Fernsehen	Video	Video
	Sound	Son	Ton	Sonido	Suono
	Connection bus	Bus de liaison	Anschluß Bus	Bus de enlace	Via di collegamento
	Signal departure	Départ d'un signal	Signal Quelle	Salida de señal	Partenza di un segnale
	Signal arrival	Arrivée d'un signal	Signal Eingang	Llegada de señal	Arrivo di un segnale
	Oscilloscope	Oscilioscope	Oszilloskop	Oscilloscopio	scilloscopio
	Discriminator demodulator	Discriminateur démodulateur	Diskriminator demodulator	Discriminador demodulador	Discriminatore demodulatore
	Converter	Convertisseur	Umformer	Convertidor	Convertitore
	Phase changer	Changeur de phase (déphaseur)	Phasenweiche	Cambiador de fase	Sfasatore
	Limit threshold device	Dispositif à seuil limiteur	Begrenzer	Dispositivo de umbral limitador	Dispositivo a soglia limitatore
OSC	Oscillator	Oscillateur	Oszillator	Oscilador	Oscillatore
	Phase comparator	Comparateur de phase	Phasen Vergleicher	Comparador de fase	Comparatore di fase
Burst	Signal producer	Générateur	Generator	Generador	Generatore
	Coincidence detector	Détecteur à coïncidence	Koinzidenzdetektor	Detector de coincidencia	Rivelatore di coincidenza
CC	Cable channel	Réseau cablé	Kabelkanäle	Canal por cable	Rete via cavo

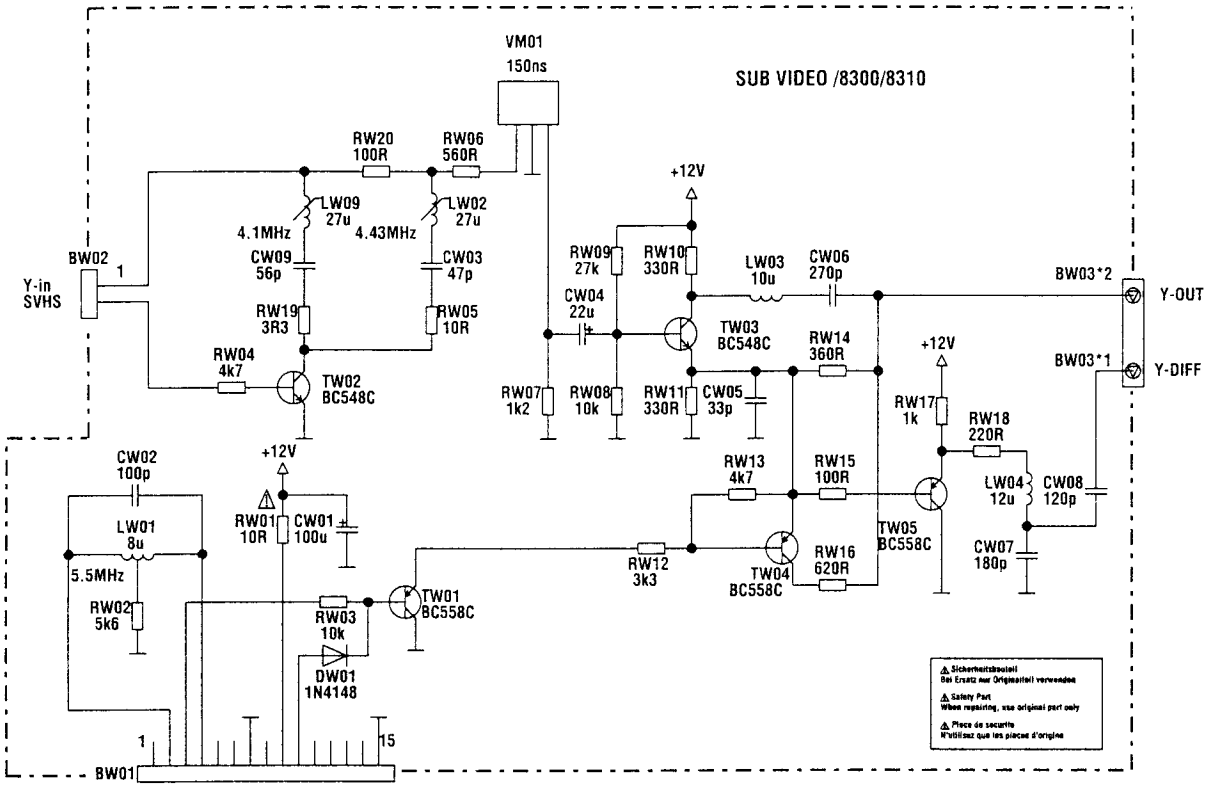
CRT8010/8020/8050



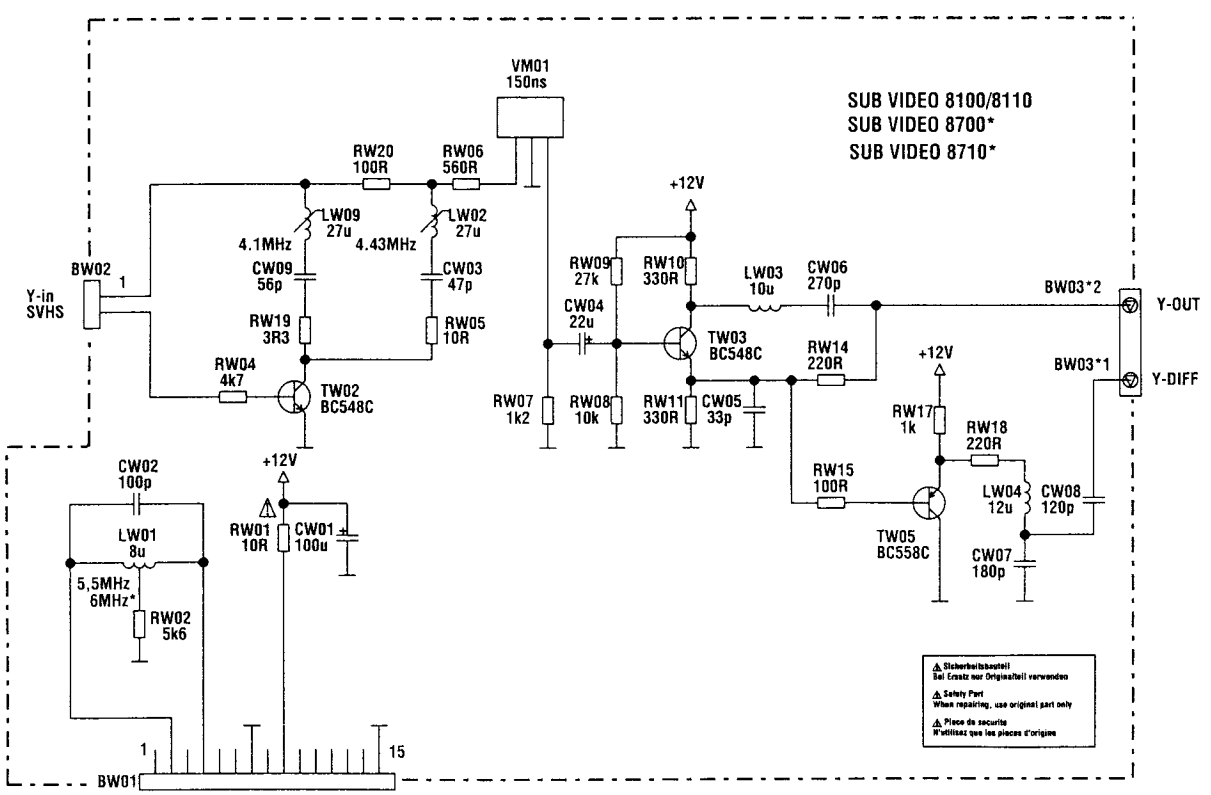
CDI8000



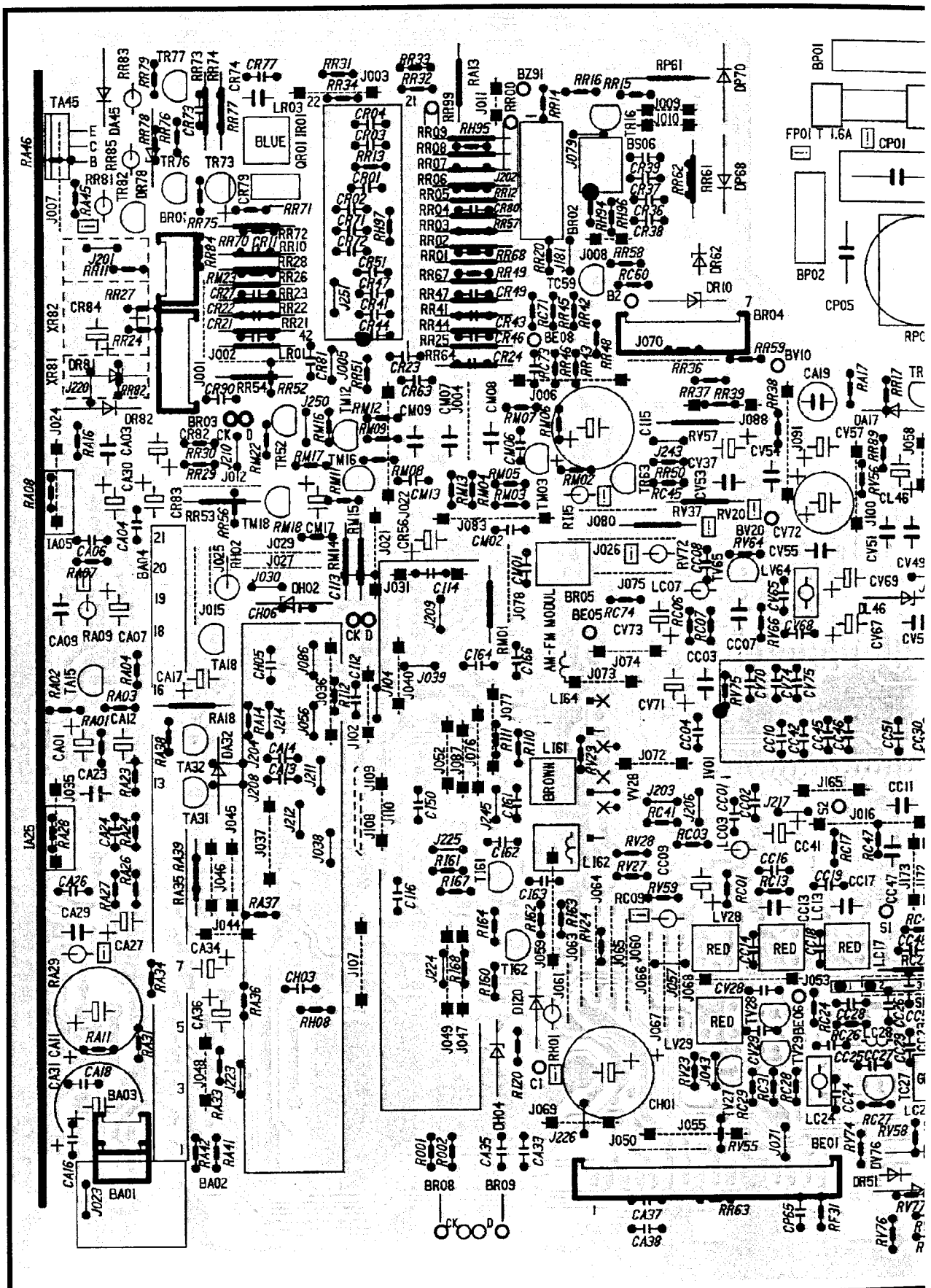
SUB VIDEO 8300/8310



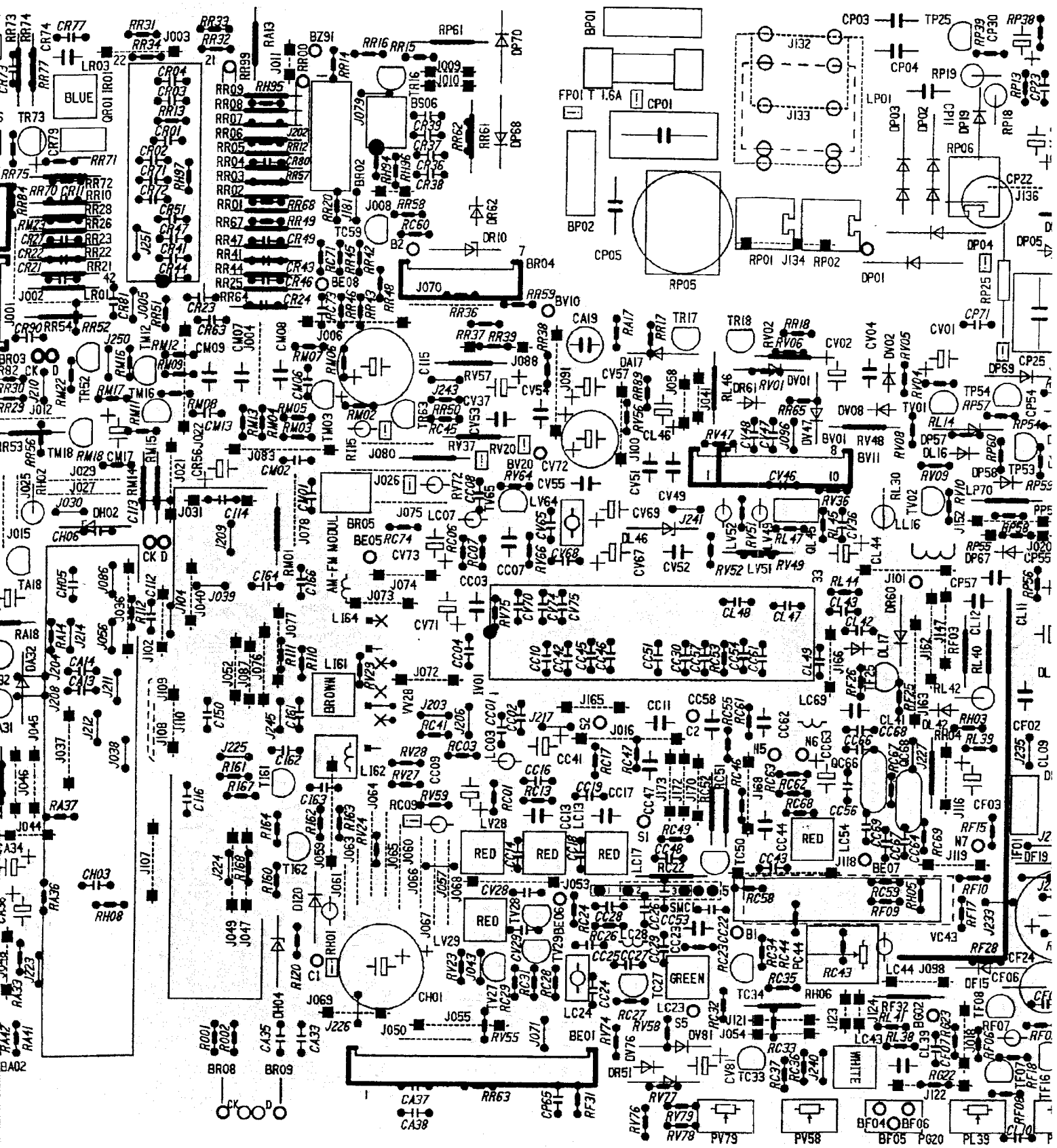
SUB VIDEO 8100/8110/8700*/8710*

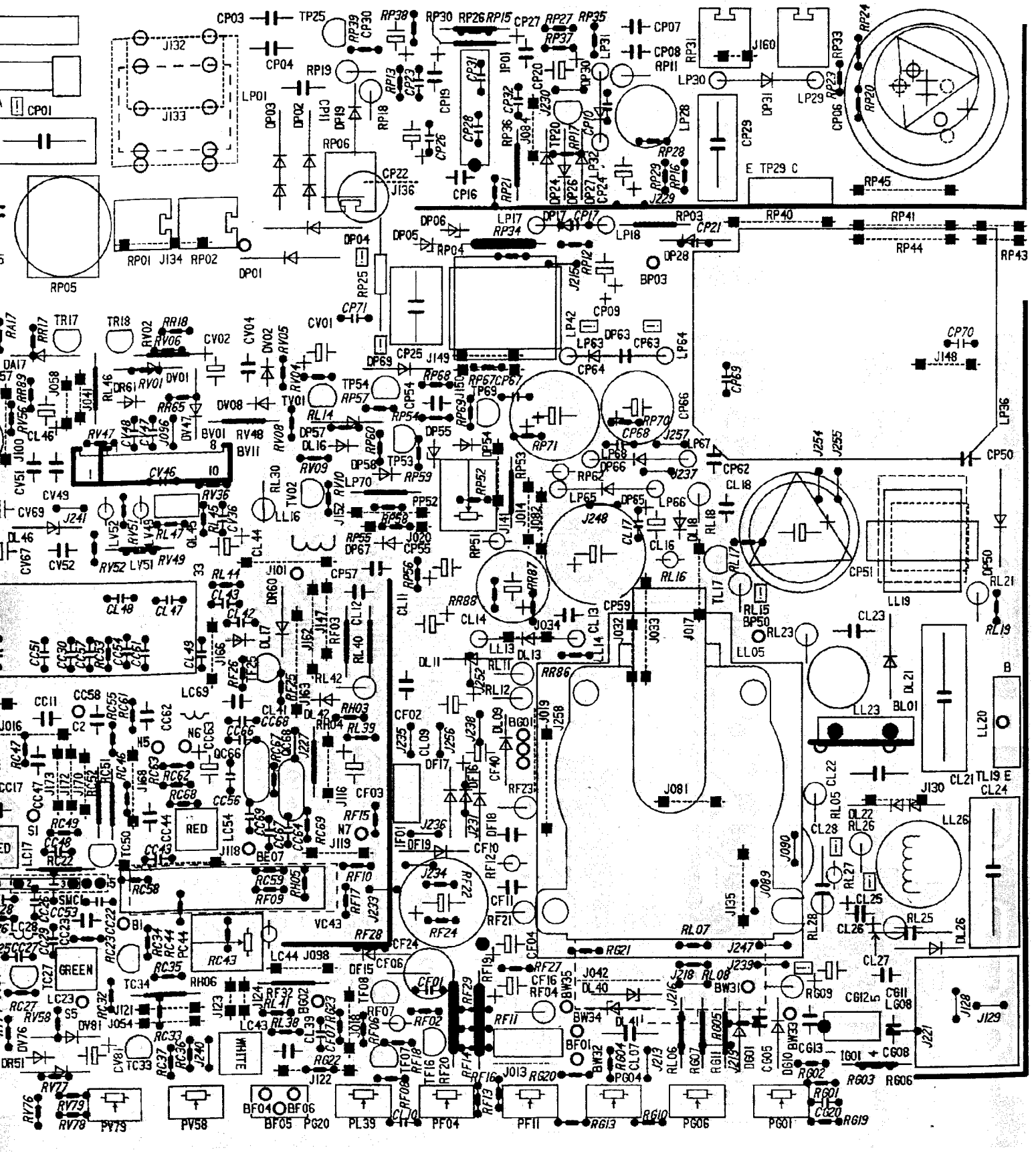


COMPONENT SIDE - COTE ELEMENTS - BESTUCKUNGBEITE - LADO COMPONENTES - LATO COMP

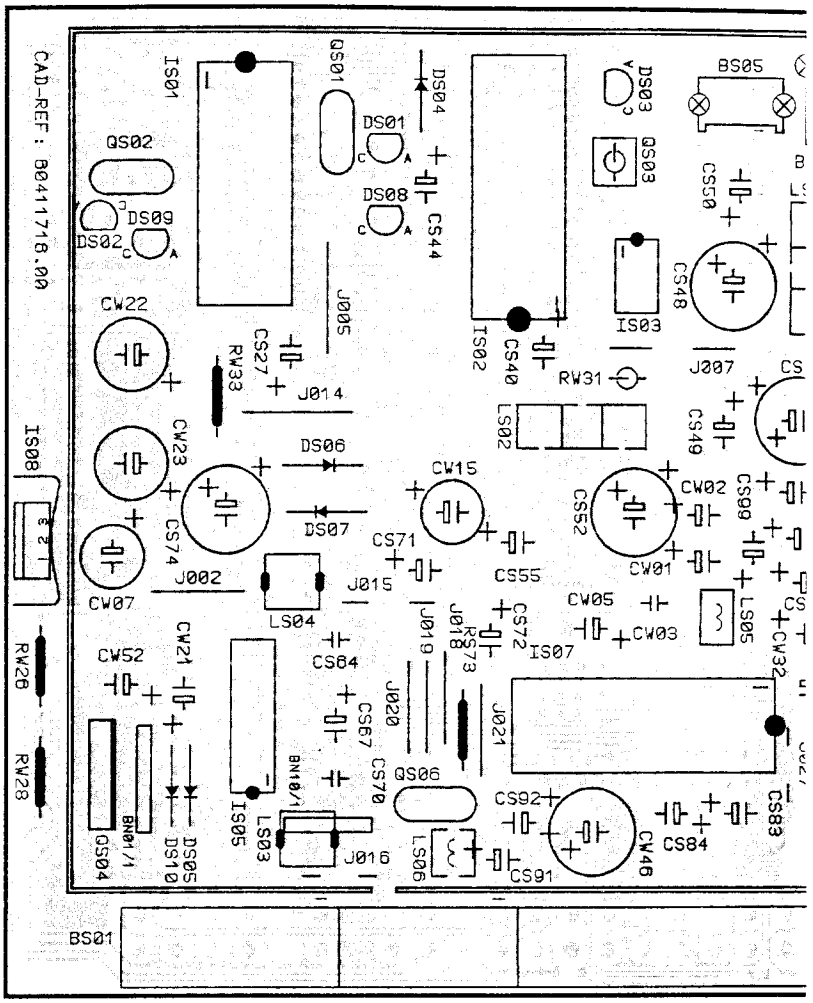


- COTE ELEMENTS - BESTUCKUNGBEITE - LADO COMPONENTES - LATO COMPONENTI

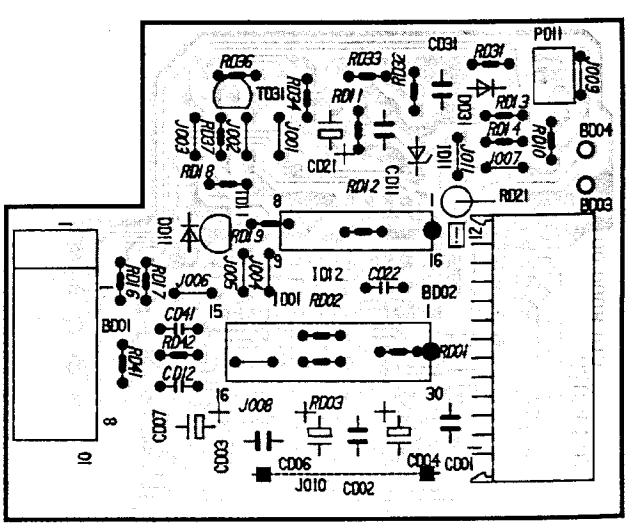



RED
GREEN
WHITE

NI 2003



CDI 8000



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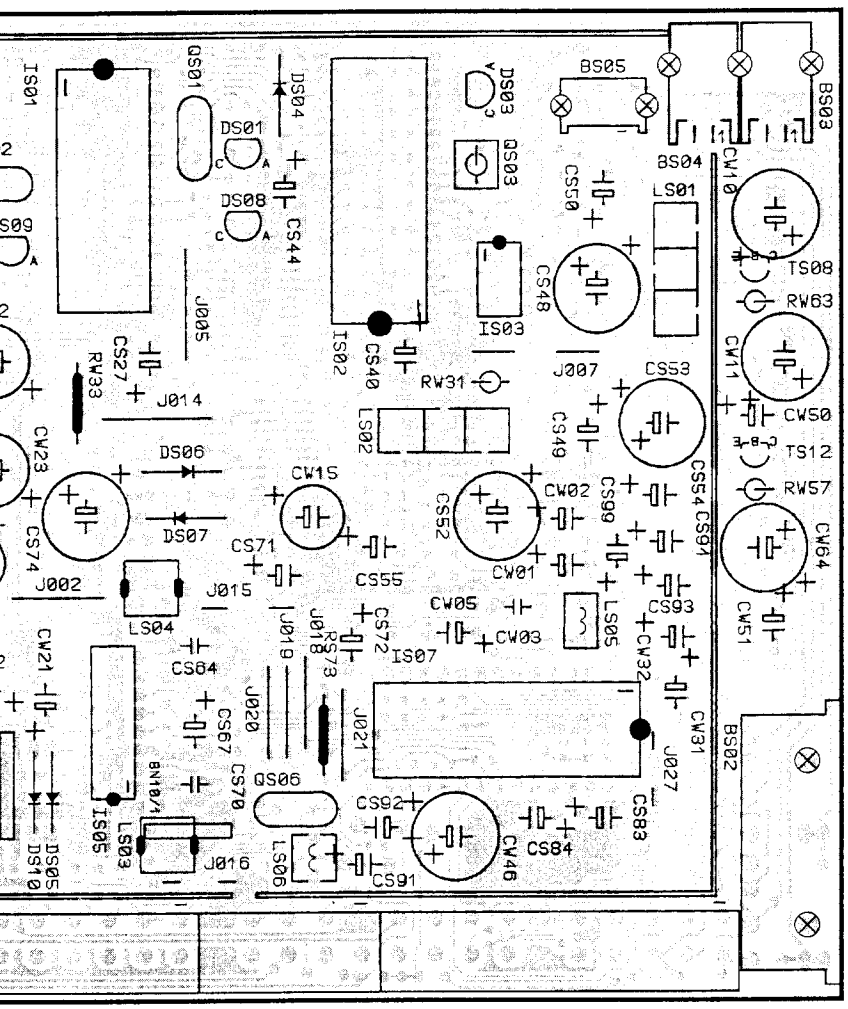

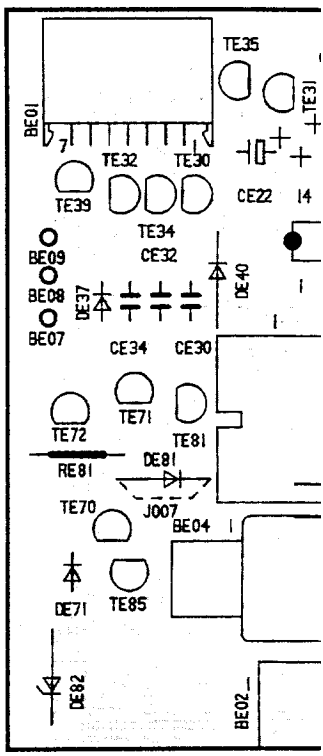

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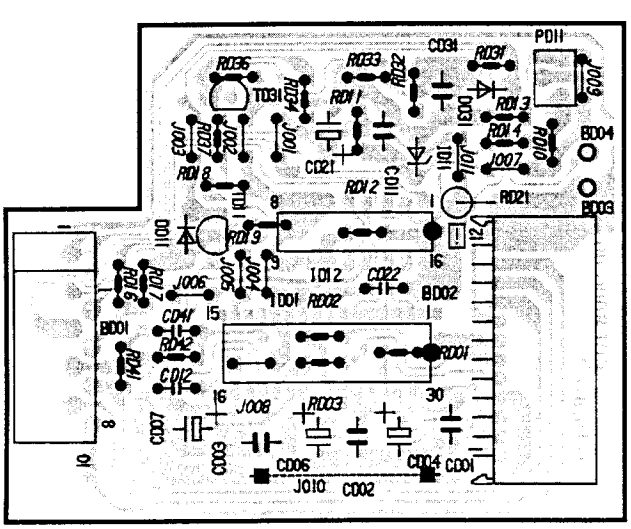

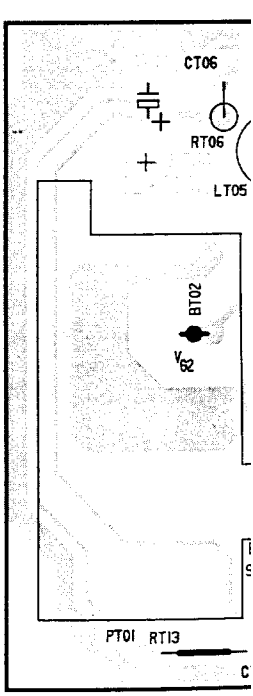

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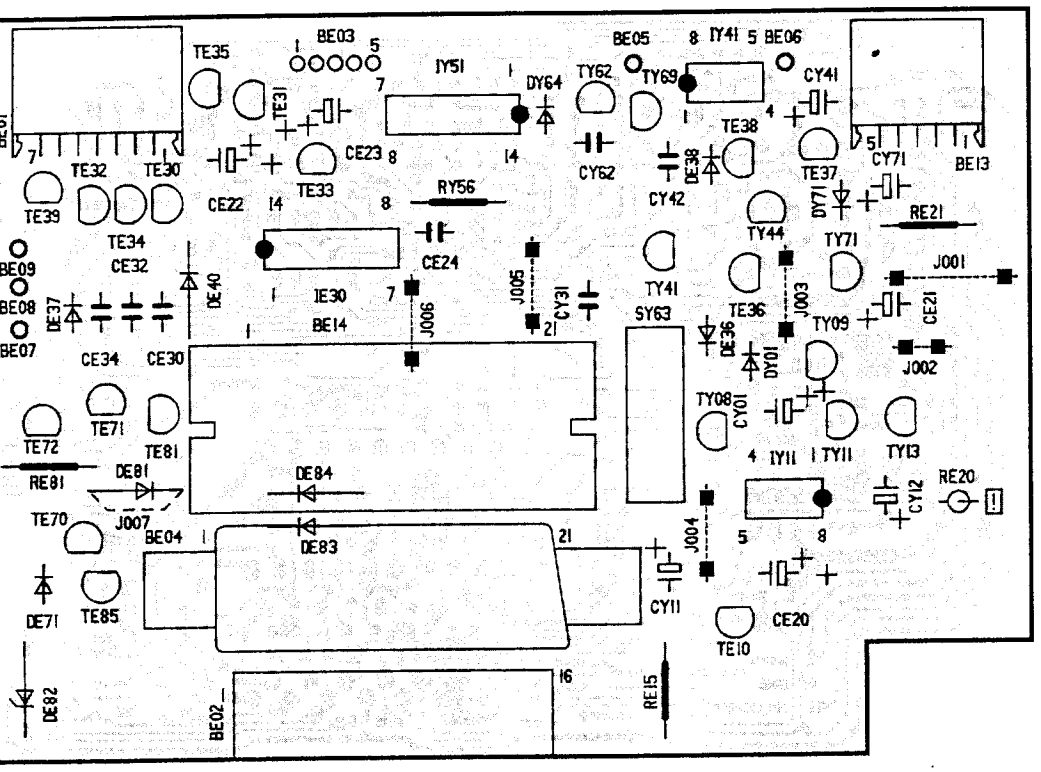
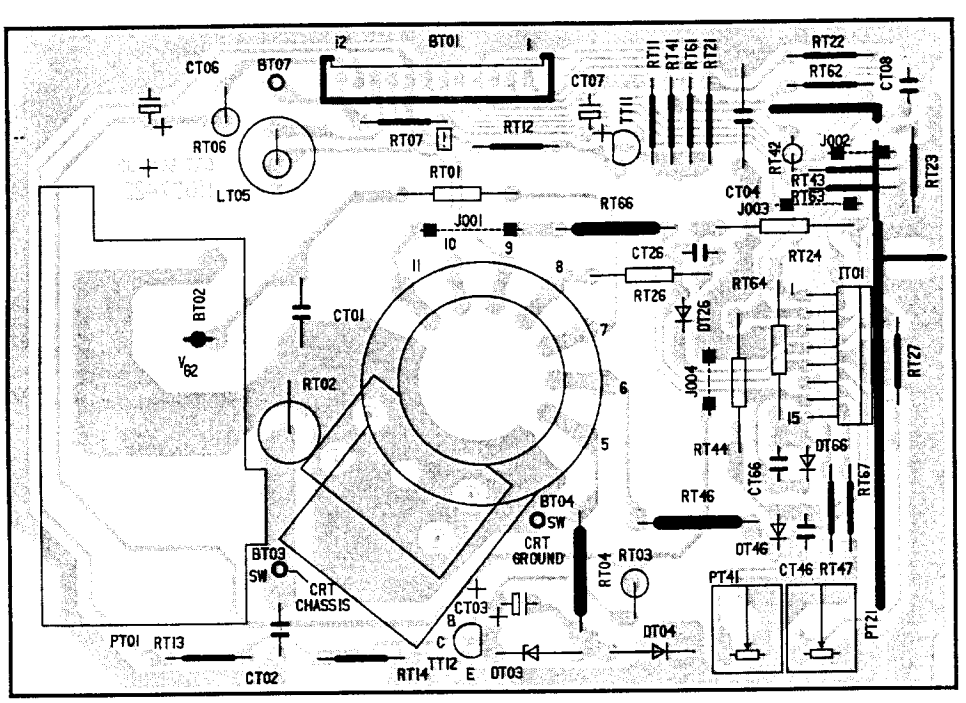


CRT 8010/8020/8050

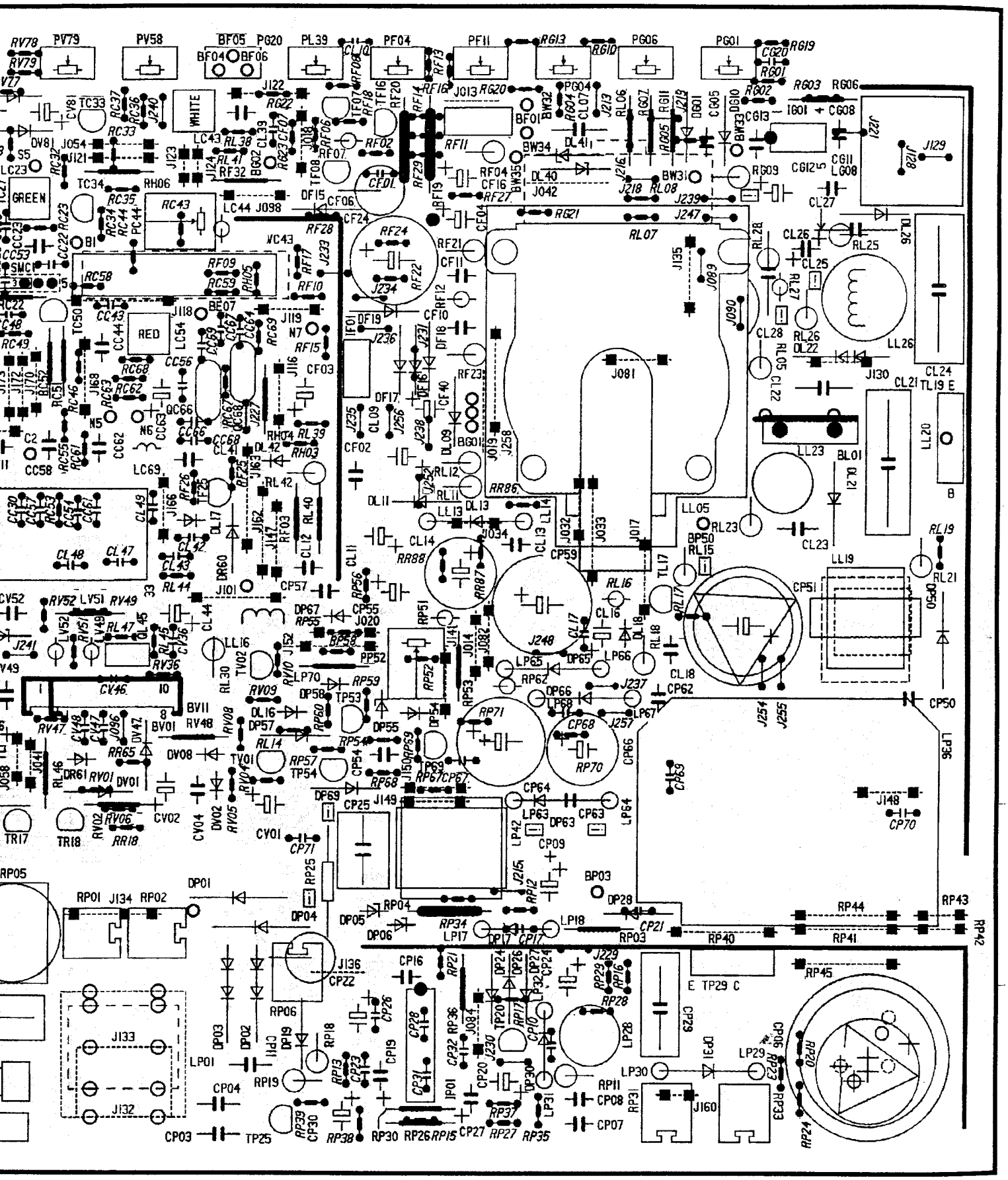


I - TECHNICAL DATA AND COMPOSITION OF RECEIVERS

- ***COMMON TECHNICAL DATA :*** *Selection of 60 programs HF and 1 audiovisual by IR remote control*

O.S.D. : - for chanel programmation and identification
for levels of Customer control settings

COMMERCIAL REFERENCES	L x H x D (mm) Weight (kg)	Cons. (W/h) Sound Power(W)	TRC cm / °	Norm Decoding	CHAPTER				SUBASSEMBLY										
					I	II	III à V		CHASIS	AUDIO	CRT	N/S	CDI	DVT	SCI	HF/FI	KB/FCB	RIR / RCT	OTHER
COMMERCIAL REFERENCES	L x H x D (mm) Weight (kg)	Cons. (W/h) Sound Power(W)	TRC cm / °	Norm Décoding.	CHAPTER				SUBASSEMBLY										
					I	II	III à V		CHASIS	AUDIO	CRT	N/S	CDI	DVT	SCI	HF/FI	KB/FCB	RIR / RCT	OTHER
							Description ==>		ICC8707	NI2003	CRT8010	NS8000	CDI8000		SCI7040	MTP2011	FCB8008	RIR4000	LDN6005
59SL2	674X490X430	105	25"	I	OPERATING	*Adjustments*	*Block Diagram*	III	1 to 2	-	-	-	-	-	-	IF2132	-	-	S.VID 8710
	29	2X20W	110°	PAL	INSTRUCTIONS	*1 to 6*	*Schema*	IV	1 to 4	9 to 10	25	7 to 8	25	-	16	11 to 12	22	23	26
							PCB	V	1 to 2/6 to 9	3	4	5	3	-	4	-	-	-	11
							Description ==>		ICC8707	NI2003	CRT8010	NS8002	CDI8000		SCI7040	MTP2011	FCB8008	RIR4000	LDN6005
68SL2	745X521X475	105	29"	I	OPERATING	*Adjustments*	*Block Diagram*	III	1 to 2	-	-	-	-	-	-	IF2132	-	-	S.VID 8710
	36	2X20W	110°	PAL	INSTRUCTIONS	*1 to 6*	*Schema*	IV	1 to 4	9 to 10	25	7 to 8	25	-	16	11 to 12	22	23	26
							PCB	V	1 to 2/6 to 9	3	4	5	3	-	4	-	-	-	11
							Description==>		ICC8706	NI2003	CRT2007		CDI7000	DVT2013		MTP2011	FCB8017	RIR4000	S.VID 8710
B51NX	510X444X398	95	21"	I	OPERATING	*Adjustments*	*Block Diagram*	III	1 to 2	-	-	-	-	-	-	IF2132	-	-	
	21	2X20W	90°	PAL	INSTRUCTIONS	*1 to 6*	*Schema*	IV	1 to 4	9 to 10	5	-	4 to 5	19 to 20	-	11 to 12	21	23	26
							PCB	V	1 to 2/6 to 9	3	5	-	10	12	-	-	-	-	11
							Description ==>		ICC8705	NI2003	CRT7000		CDI7000	DVT2013		MTP2011	FCB8010	RIR4000	S.VID 8710
B59N	626X490X448	95	25"	I	OPERATING	*Adjustments*	*Block Diagram*	III	1 to 2	-	-	-	-	-	-	IF2132	-	-	
	26	2X20W	110°	PAL	INSTRUCTIONS	*1 to 6*	*Schema*	IV	1 to 4	9 to 10	5	-	4 to 5	19 to 20	-	11 to 12	21	23	26
							PCB	V	1 to 2/6 to 9	3	5	-	10	12	-	-	-	-	11
							Description ==>		ICC8704	NI2003	CRT8050		CDI7000	DVT7000	SCI7040	MTP2011	FCB8002	RIR4000	S.DFH7062
B59NX	662X488X433	95	25"	I	OPERATING	*Adjustments*	*Block Diagram*	III	1 to 2	-	-	-	-	-	-	IF2145	-	-	S.VID 8710
	29,5	2X20W	110°	PAL	INSTRUCTIONS	*1 to 6*	*Schema*	IV	1 to 4	9 to 10	25	-	4 to 5	14	16	12 to 13	21	23	26
							PCB	V	1 to 2/6 to 9	3	4	-	10	11	4	-	-	-	11
							Description ==>		ICC8704	NI2003	CRT8050		CDI7000	DVT7000	SCI7040	MTP2011	FCB8002	RIR4000	S.DFH7062
B68NX	719X534X462	95	28"	I	OPERATING	*Adjustments*	*Block Diagram*	III	1 to 2	-	-	-	-	-	-	IF2145	-	-	S.VID 8710
	33	2X20W	110°	PAL	INSTRUCTIONS	*1 to 6*	*Schema*	IV	1 to 4	9 to 10	25	-	4 to 5	14	16	12 to 13	21	23	26
							PCB	V	1 to 2/6 to 9	3	4	-	10	11	4	-	-	-	11
							Description ==>		ICC8706	NI2003	CRT2007		CDI7000	DVT2013		MTP2011	FCB8017	RIR4000	S.VID 8710
E51N	510X444X398	95	21"	I	OPERATING	*Adjustments*	*Block Diagram*	III	1 to 2	-	-	-	-	-	-	IF2132	-	-	
	21	2X20W	90°	PAL	INSTRUCTIONS	*1 to 6*	*Schema*	IV	1 to 4	9 to 10	5	-	4 to 5	19 to 20	-	11 to 12	21	23	26
							PCB	V	1 to 2/6 to 9	3	5	-	10	12	-	-	-	-	11
							Description ==>		ICC8706	NI2003	CRT2007		CDI7000	DVT2013		MTPG2003	FCB8012	RIR4000	S.VID 8710
C51N	518X444X475	95	21"	I	OPERATING	*Adjustments*	*Block Diagram*	III	1 to 2	-	-	-	-	-	-	IF2132	-	-	
	21	2X20W	90°	PAL	INSTRUCTIONS	*1 to 6*	*Schema*	IV	1 to 4	9 to 10	5	-	4 to 5	19 to 20	-	11	22	23	26
							PCB	V	1 to 2/6 to 9	3	5	-	10	12	-	10	-	-	11
							Description ==>		ICC8706	NI2003	CRT2007		CDI7000	DVT2012		MTPG2003	FCB8015	RIR4000	S.VID 8710
E51 R8 NIC	510X444X398	95	21"	I	OPERATING	*Adjustments*	*Block Diagram*	III	1 to 2	-	-	-	-	-	-	IF2132	-	-	
	21	2X20W	90°	PAL	INSTRUCTIONS	*1 to 6*	*Schema*	IV	1 to 4	9 to 10	5	-	4 to 5	17 to 18	-	11	-	23	26
							PCB	V	1 to 2/6 to 9	3	5	-	10	12	-	10	-	-	11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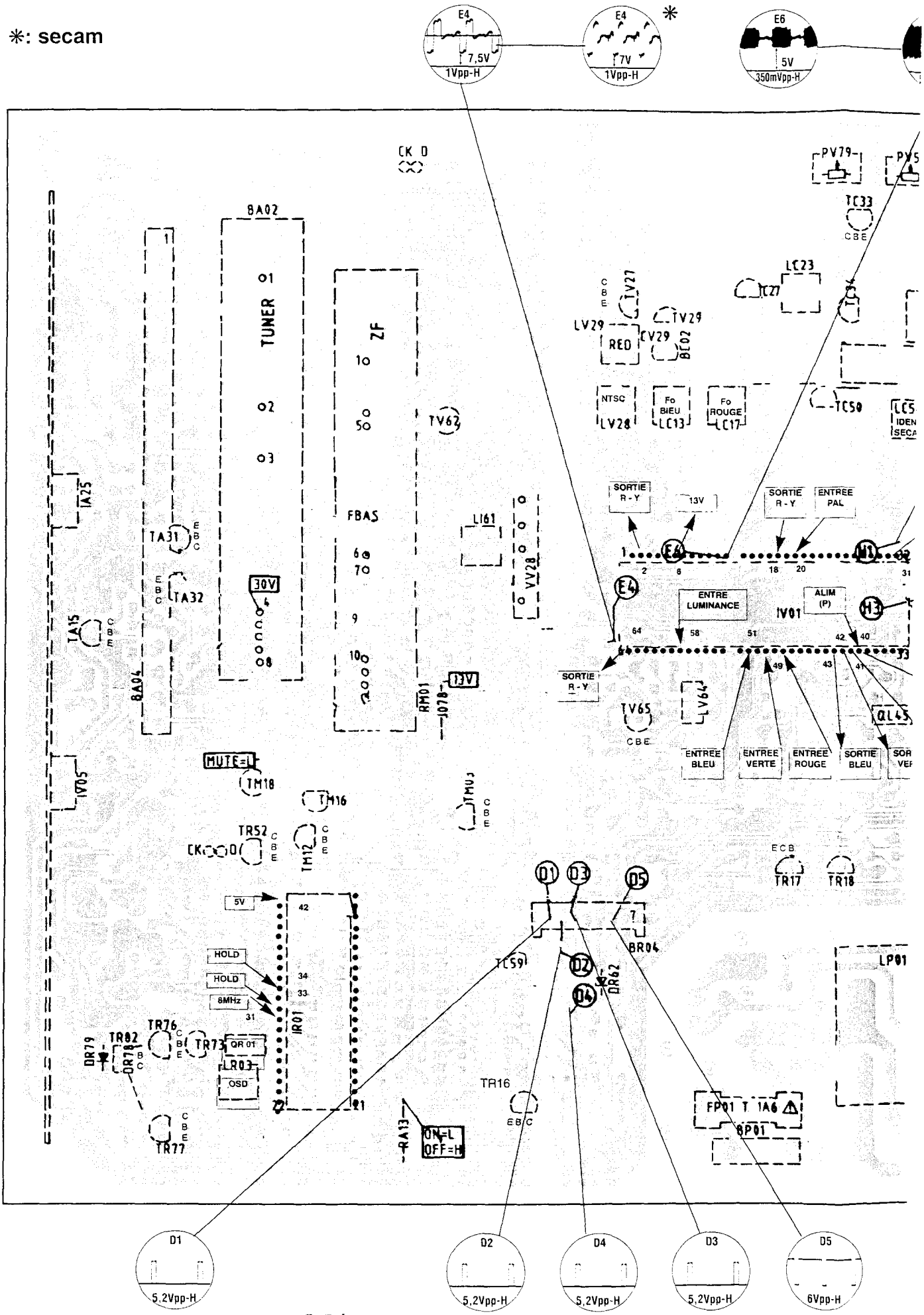
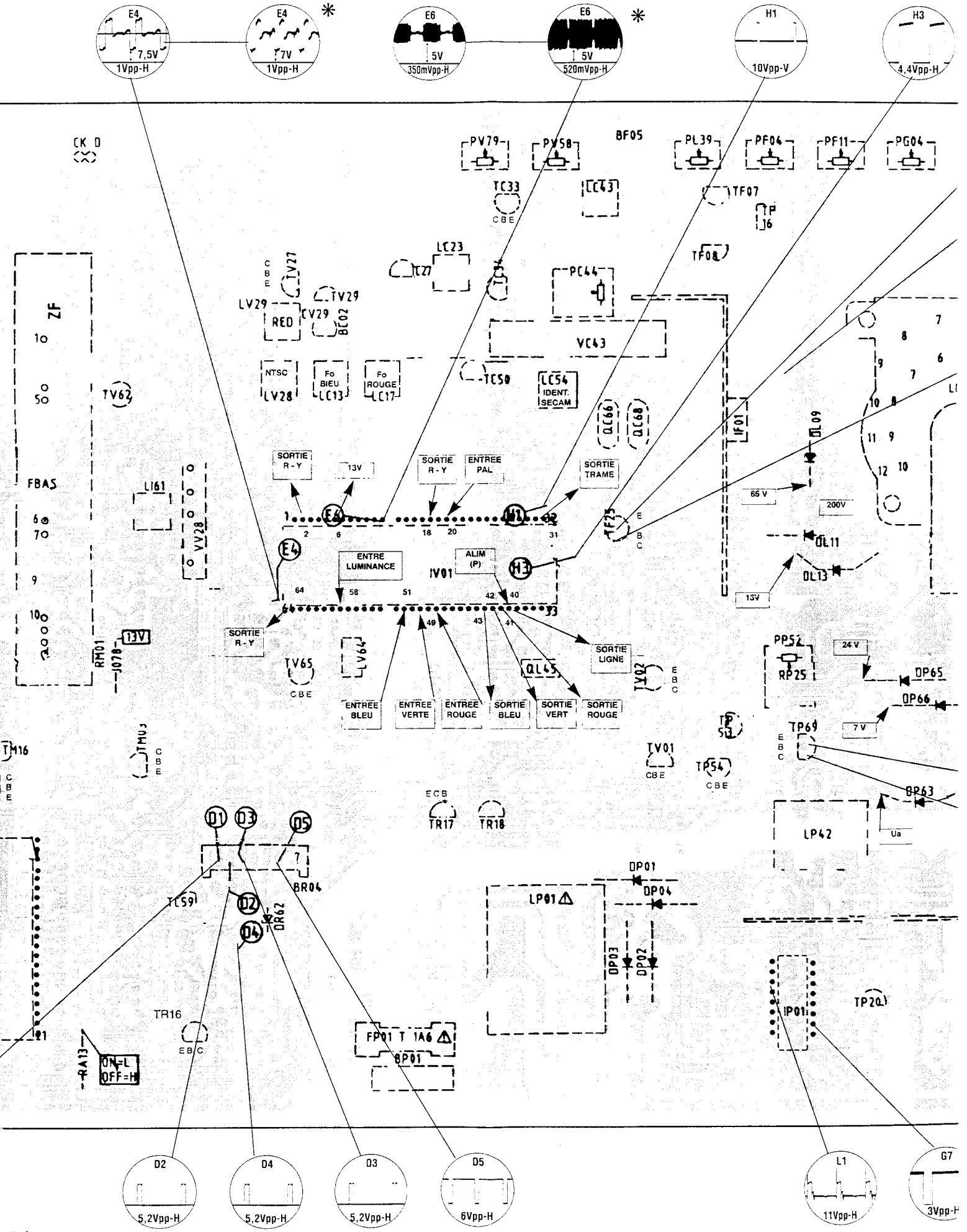
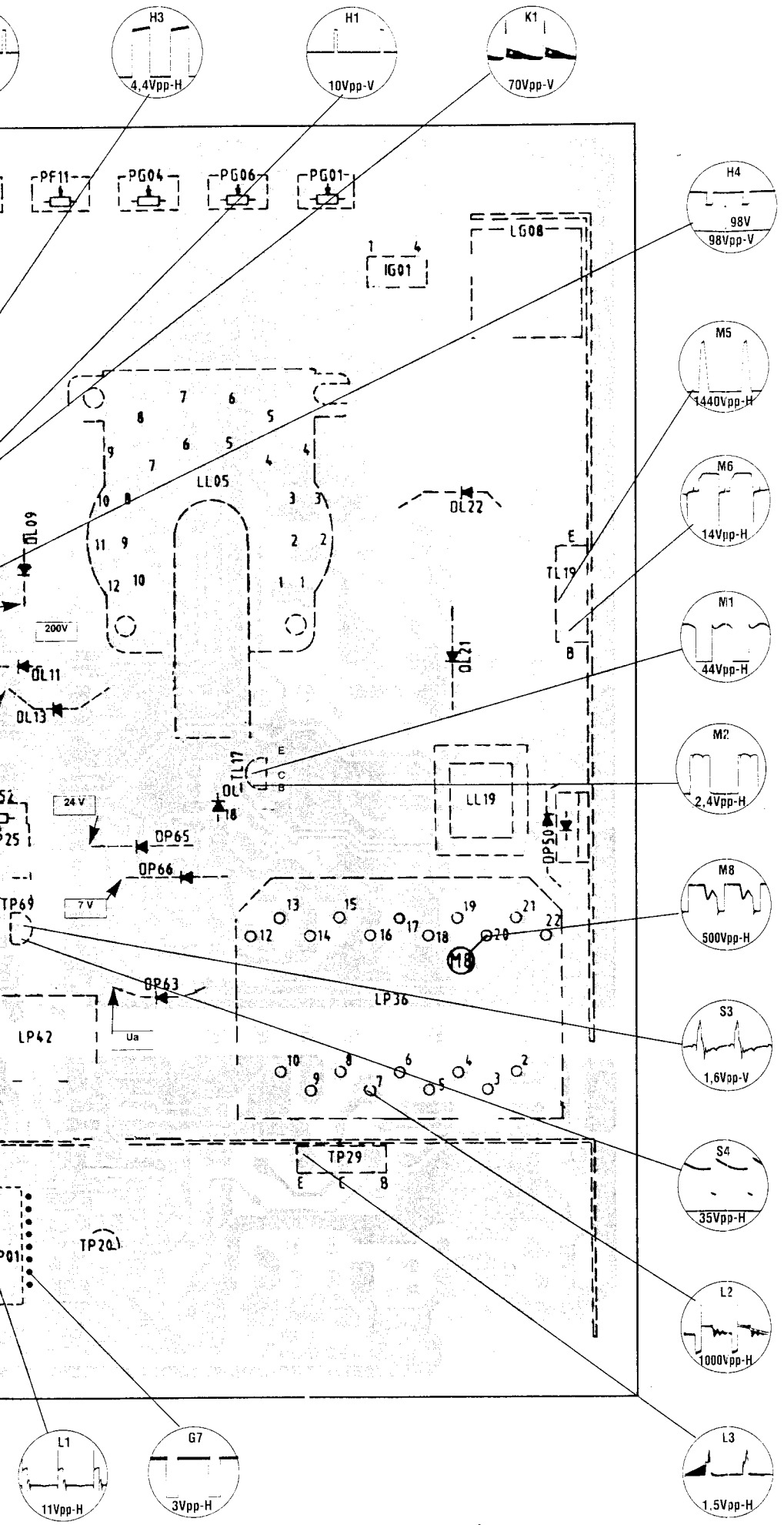
(SOLDER SIDE COTE CUIVRE - LOTSEITE - LADO DEL COBRE - LATO SALDATURE)

*: secam



ADO DEL COBRE - LATO SALDATURE)





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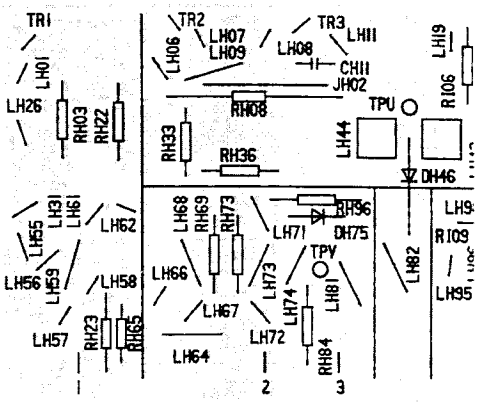

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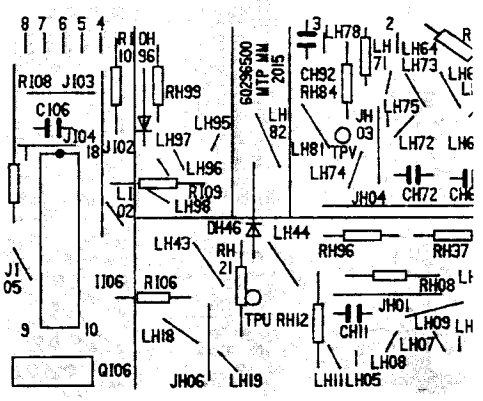

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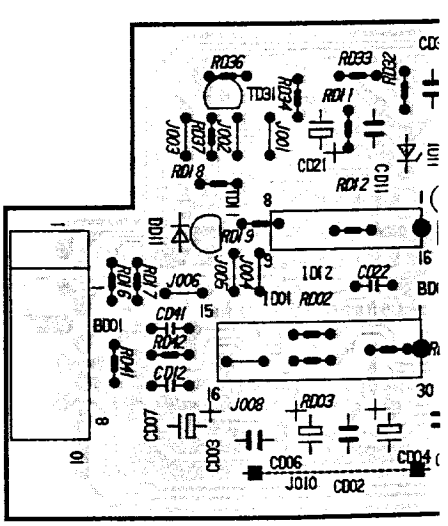

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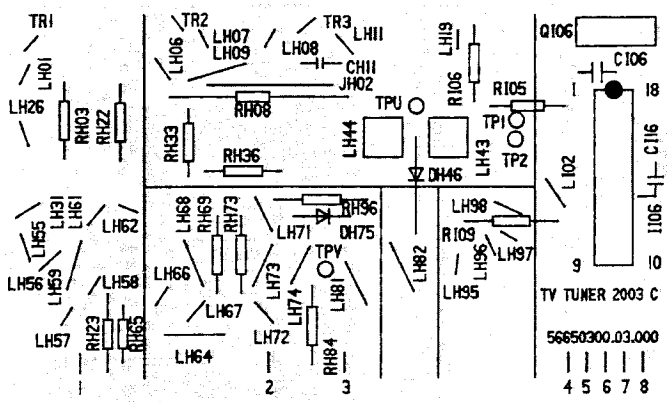

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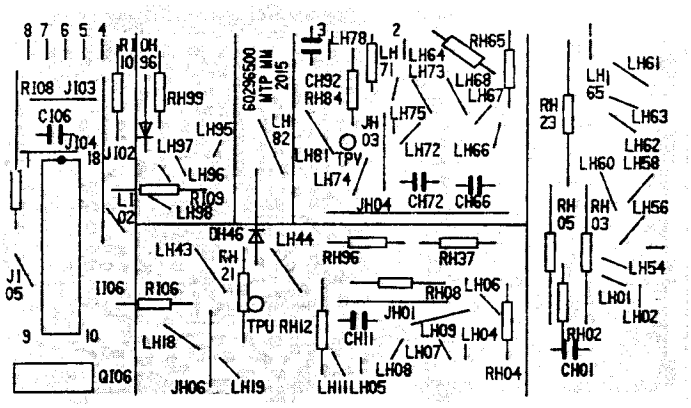

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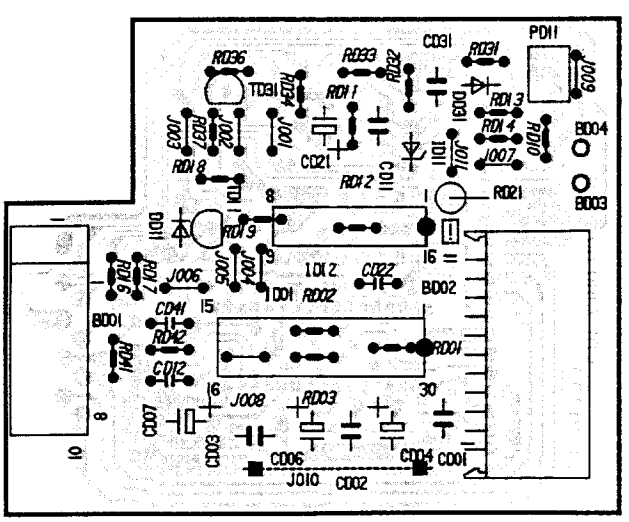

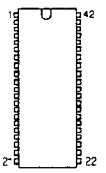

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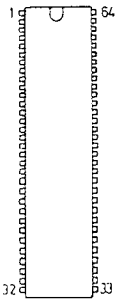
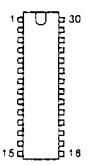


TA 8659CN



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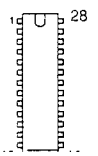

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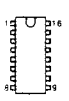

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TDA9820

MC1468BP
MC14069
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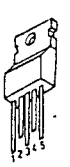
TEA 2014



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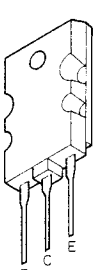

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BC 337-40
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B E C

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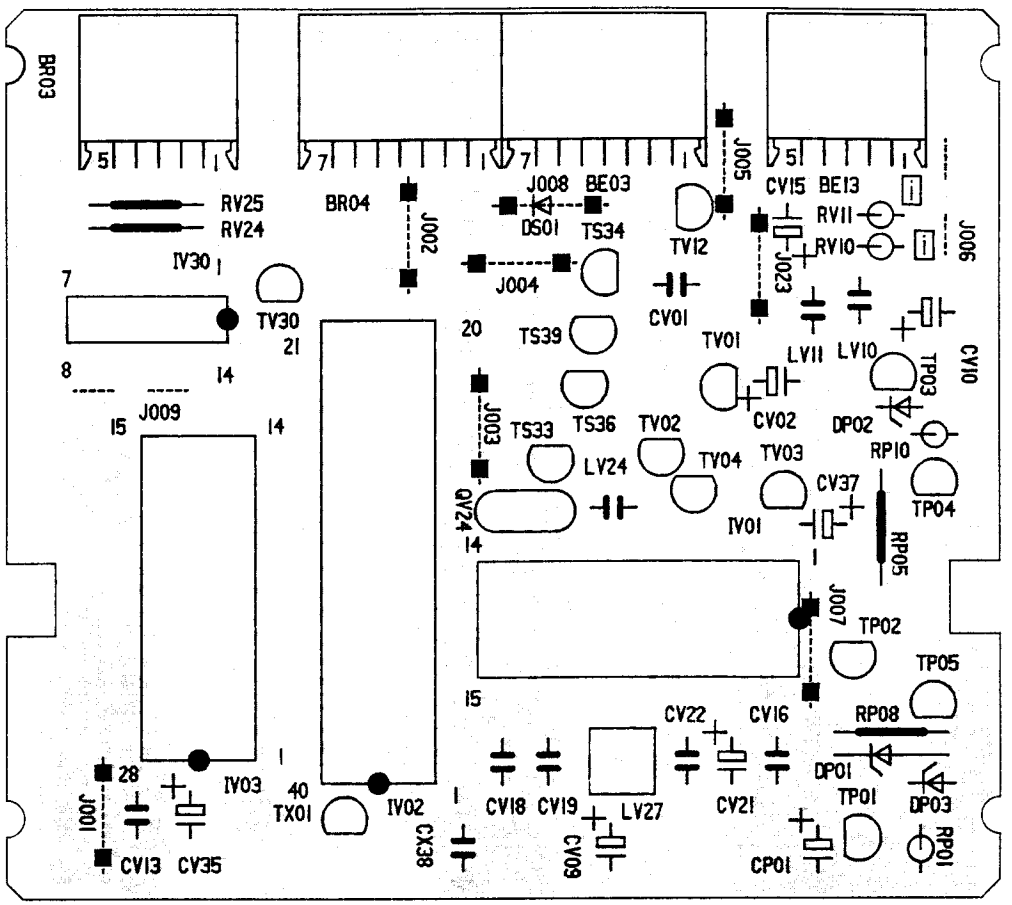
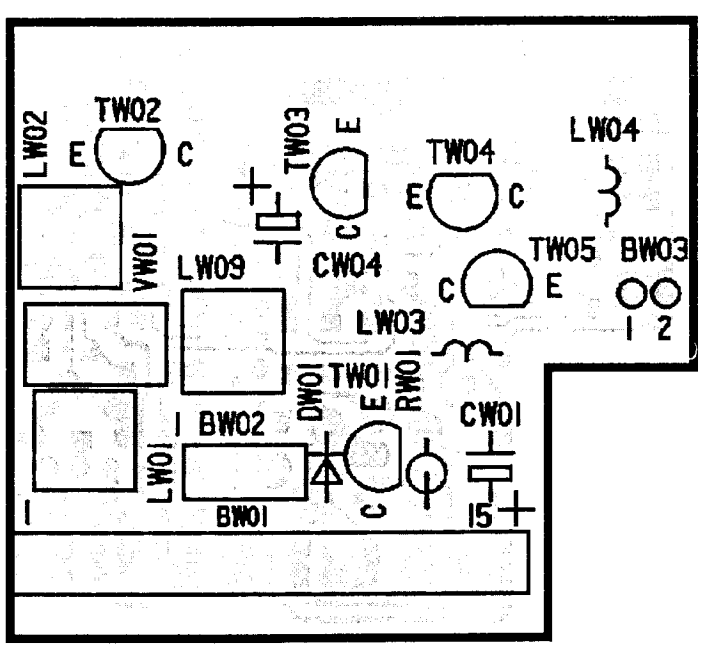
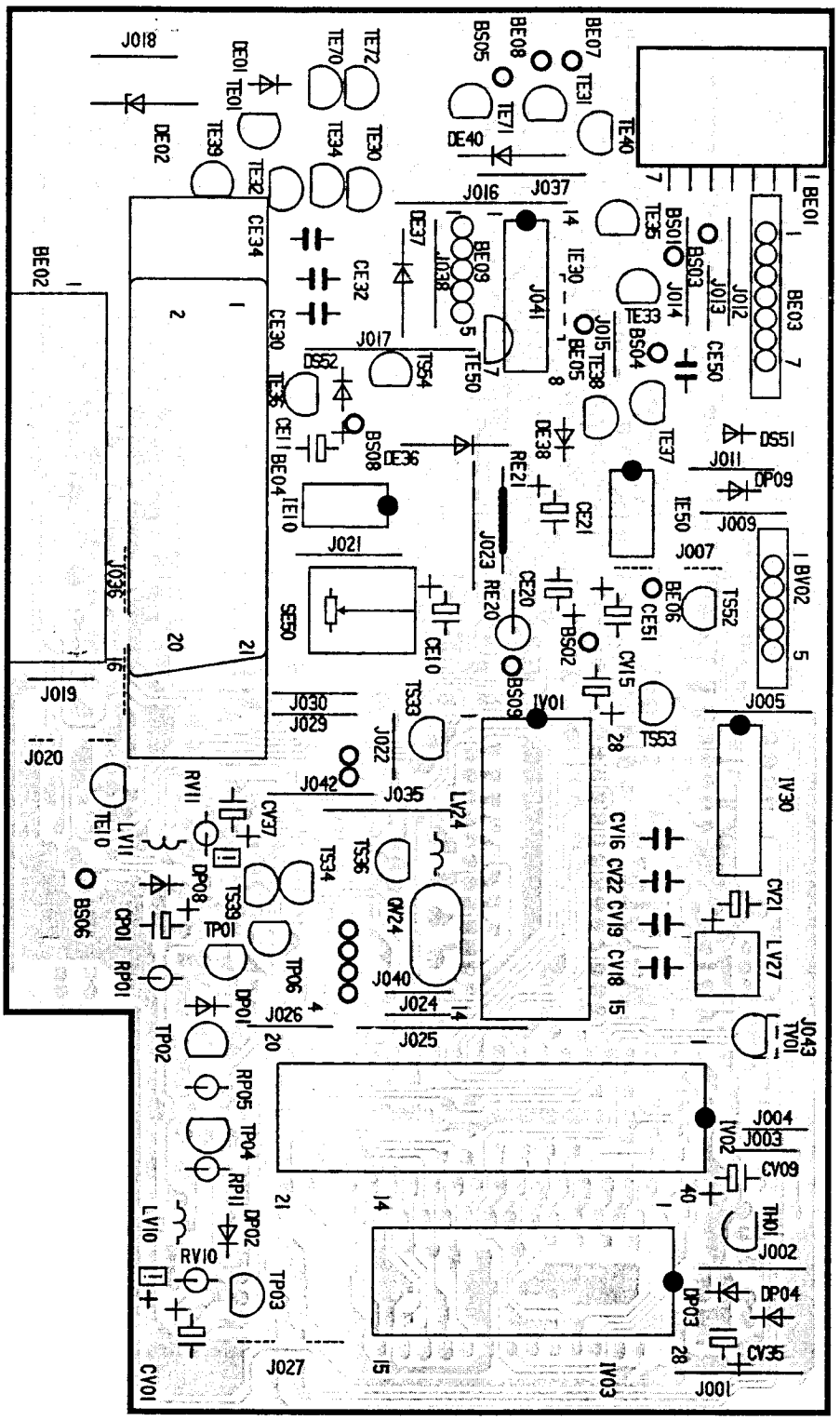


SUB VIDEO 8100 / 8110 / 8300 / 8310 / 8700

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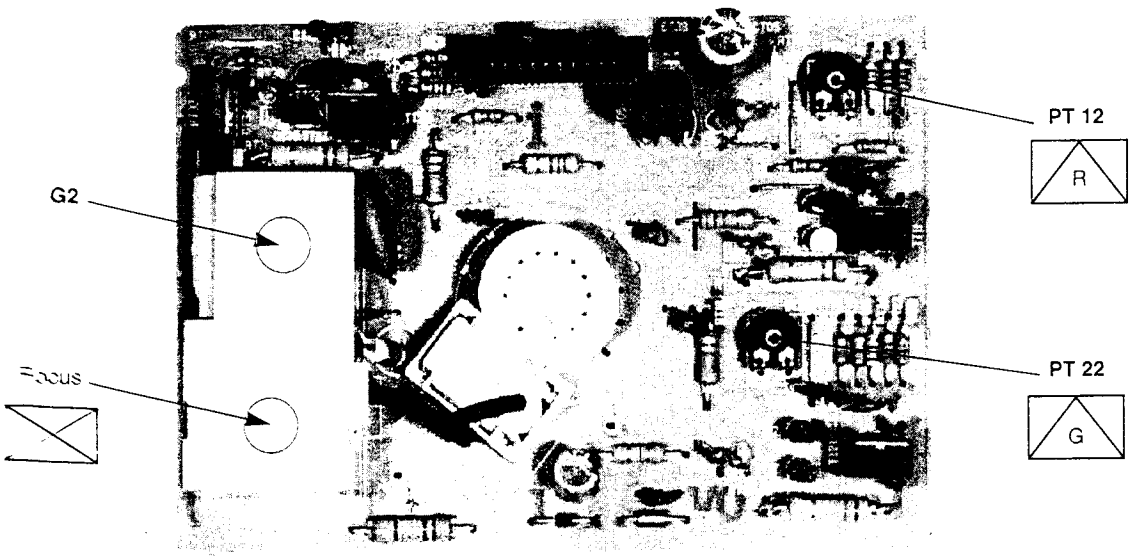


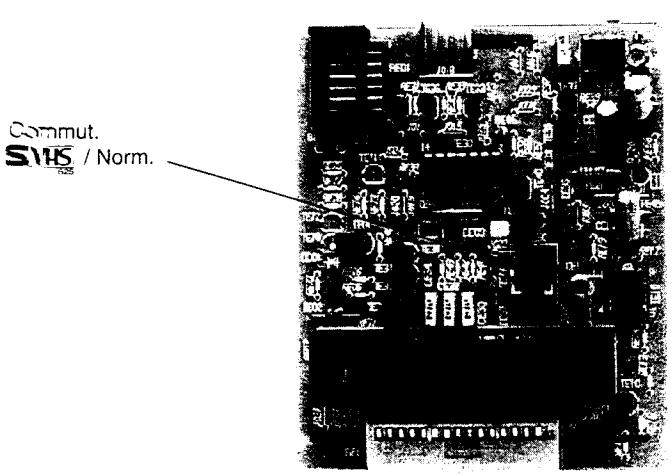
CRT

PI 40 HF AGC

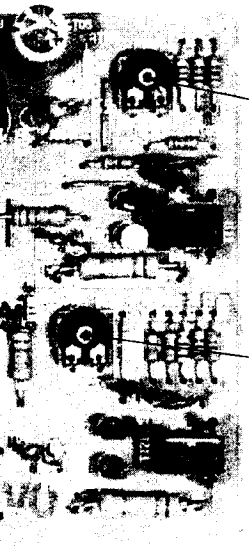
LC 13 Blue discri fo
Fo discri - bleu
Fo diskri - blau
Fo discri - azul
Fo discri - azzuro

✳ LV 29 Subcarrier reject
Réjecteur sous-porteuse
Zwischenfallen - Unterdrückung
Rechazador de subportadora
Rigettatore sottoportante
SECAM 4,3 MHz

✳ LC 23 Bell filter
Filtre cloche
Glocken filter
Filtro campana



SCI



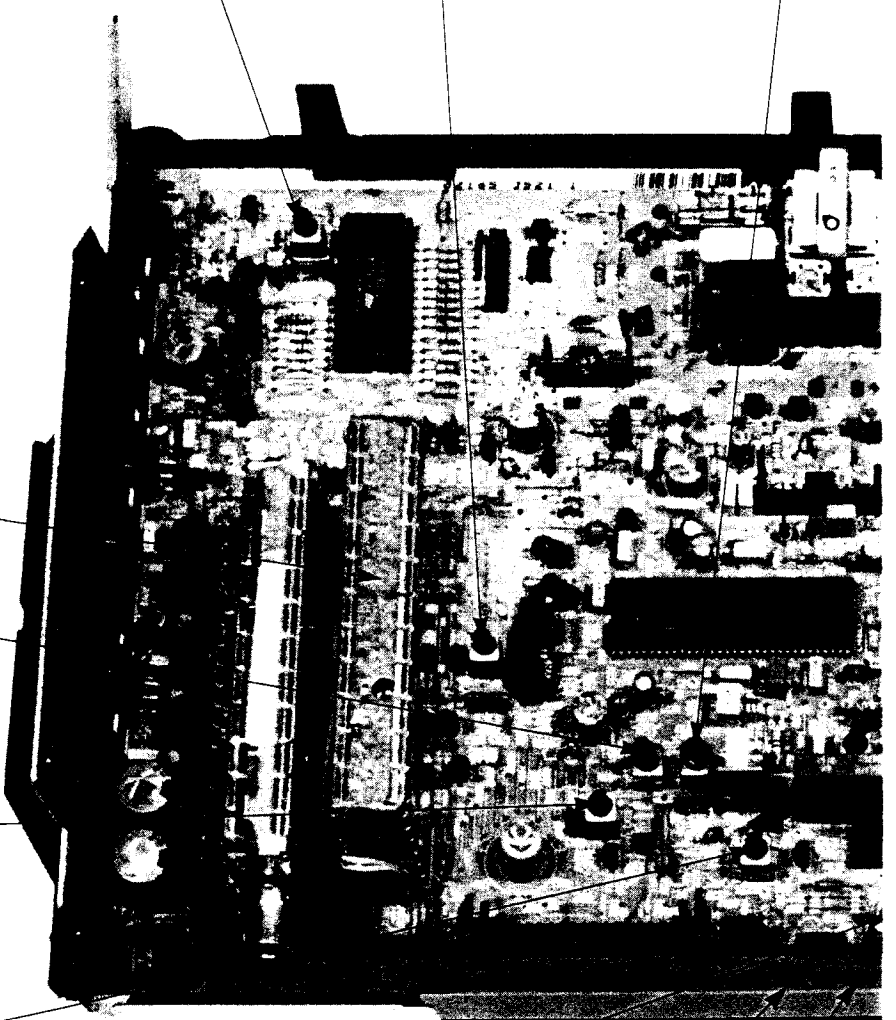
PT 12
R

PT 22
G

LR 03 OSD

LI 61 Sound rejection
Réjecteur son
Tonunterdrückung
Trampa audio
Reiettore audio

✳ LC 17 Red discri
Fo discri -
Fo diskri -
Fo discri -
Fo discri -



PI 40 HF AGC

LC 13 Blue discri fo
Fo discri - bleu
Fo diskri - blau
Fo discri - azul
Fo discri - azzuro

✳ LV 29 Subcarrier reject
Réjecteur sous-porteuse
Zwischenfallen - Unterdrückung
Rechazador de subportadora
Rigettatore sottoportante
SECAM 4,3 MHz

✳ LC 23 Bell filter
Filtre cloche
Glocken filter
Filtro campana

MAIN

LC 43 Delay line
Ligne à retard
Verzögerungsleitung
Linea de retardo
Linea di retardo

PV 79 PV 58 PG 20
16/9

✳ : SECAM

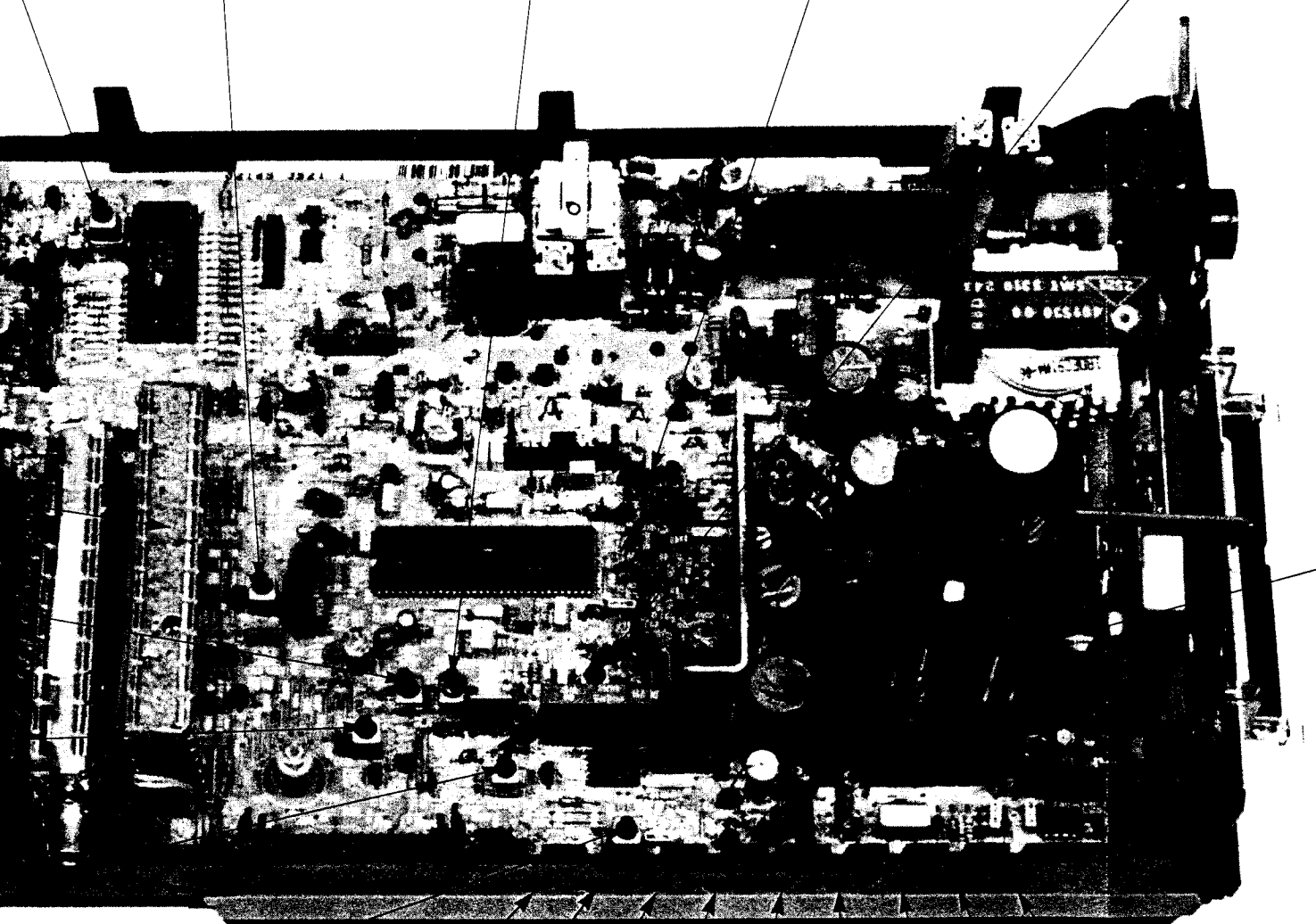
OSD

LI 61 Sound rejection
Réjecteur son
Tonunterdrückung
Trampa audio
Reiettore audio

✳ **LC 17** Red discri fo
Fo discri - rouge
Fo diskri - rot
Fo discri - rojo
Fo discri - rosso

PP 52 V = U Syst.*
* See schema.

✳ **LC 54** Identification
Identification
Kennung
identificación
Identificazione

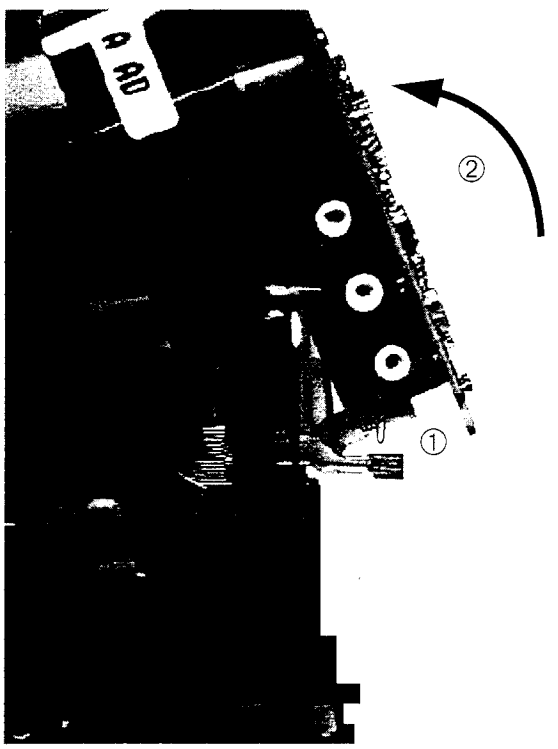


LC 43 Delay line
Ligne à retard
Verzögerungsleitung
Linea de retardo
Linea di retardo

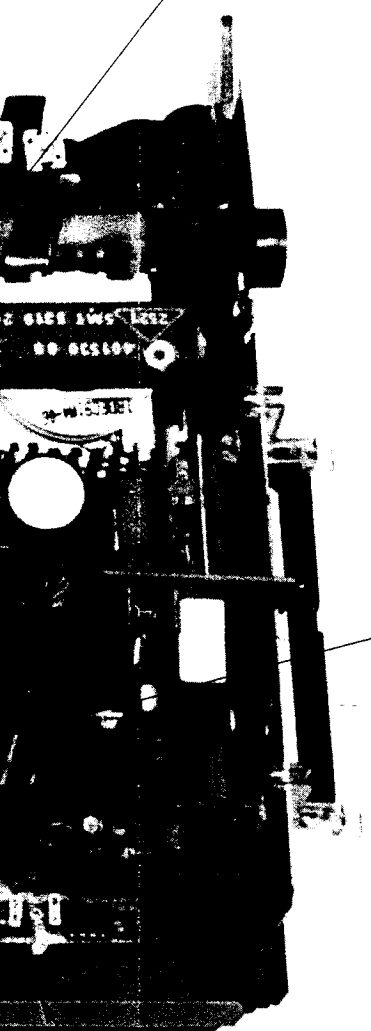
PV 79 | PV 58 | PG 20 16/9 | PL 39 | PF 04 | PF 11 | PG 04 | PG 06 | PG 01

AM

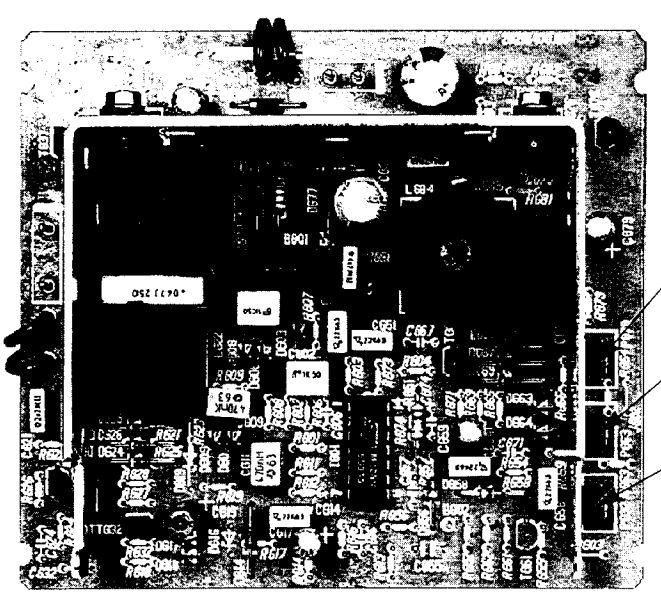
REMOVING N/S PCB
DEMONTAGE DE LA PLATINE N / S
ABNAHME N/S PLATTE
RETIRADA PLATINA N/S
SMONTAGGIO PIASTRA N/S



✳ **LC 54** Identification
Identification
Kennung
identificación
Identificazione



PC 44 PAL amplitude
Amplitude PAL
PALpegel
Amplitud PAL
Ampiezza PAL



PG 06

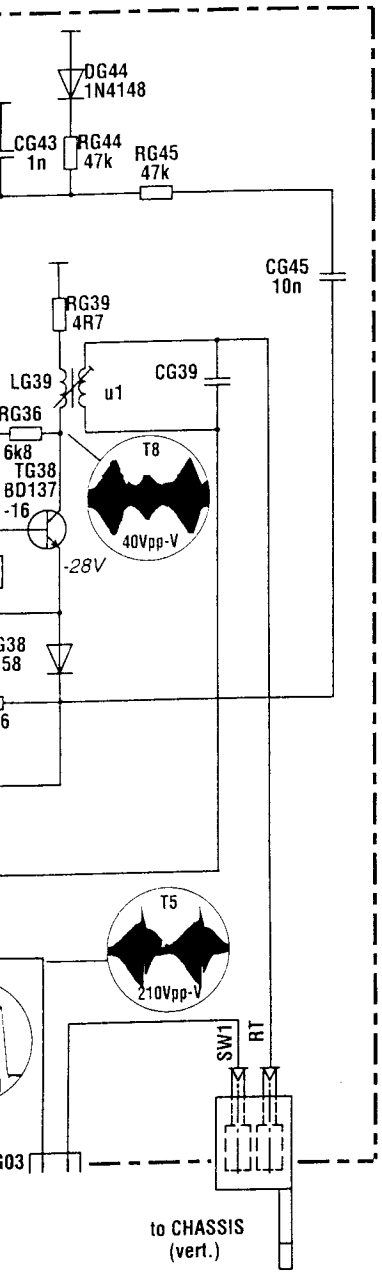
PG 01

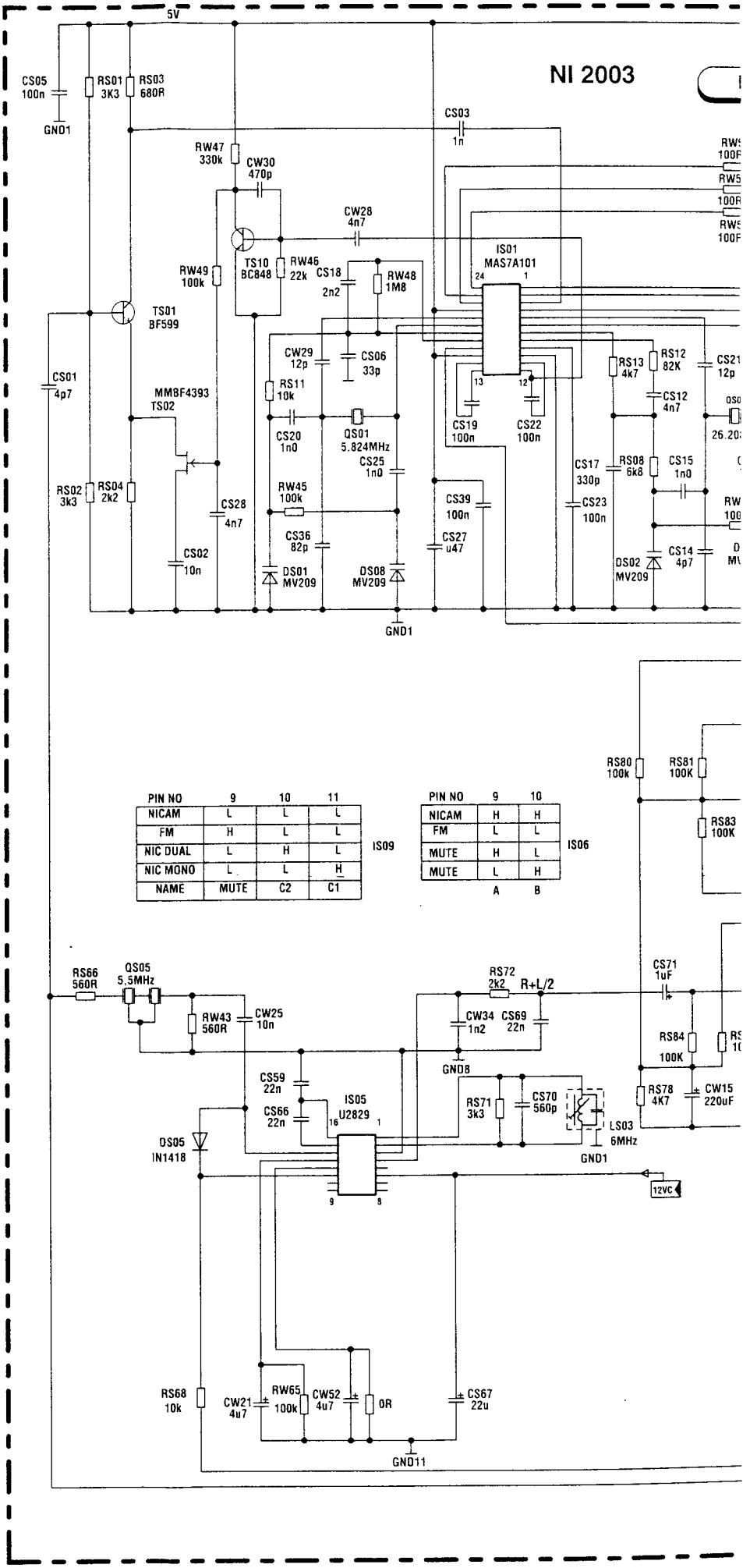
PG 79

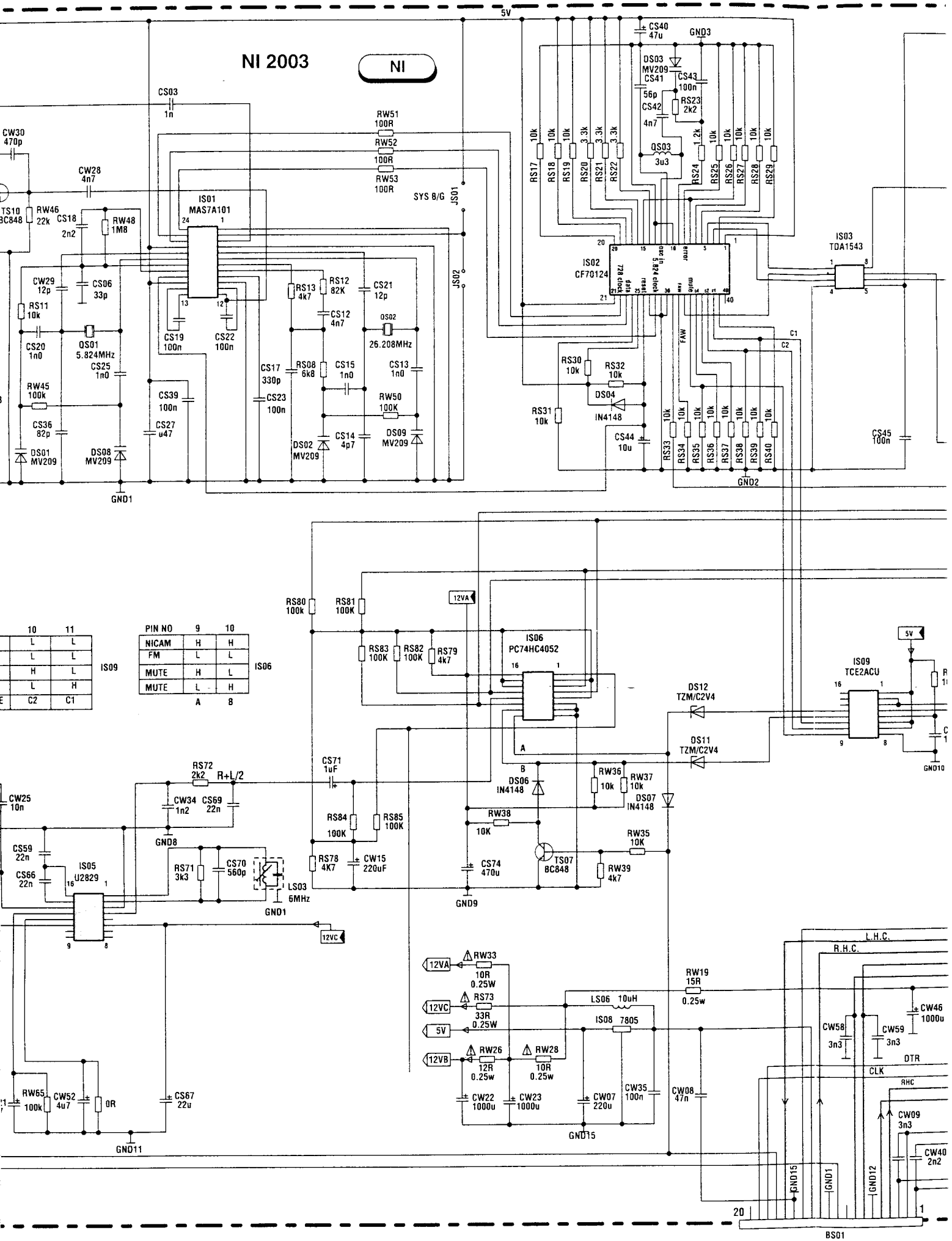
PG 63

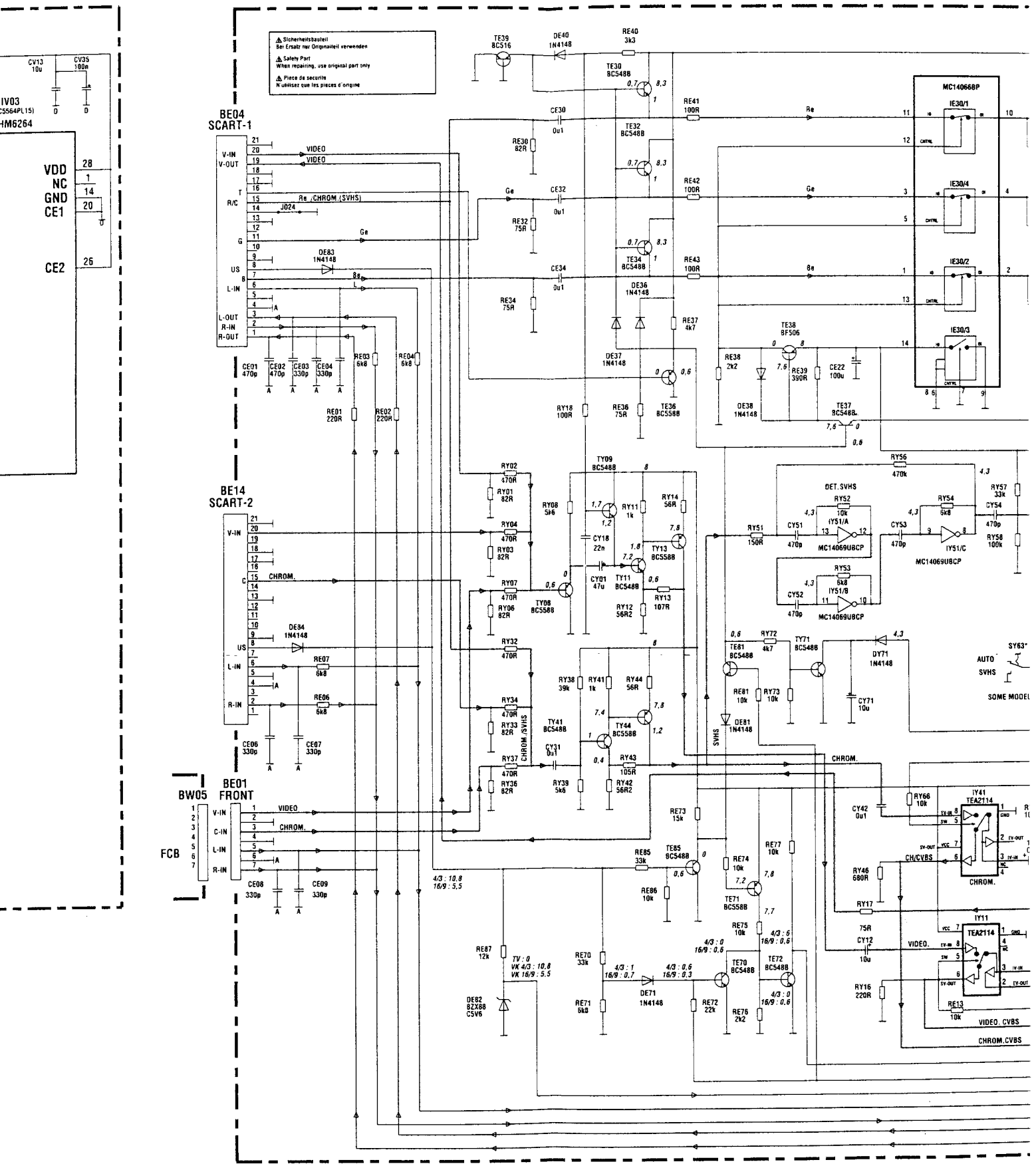
PG 32

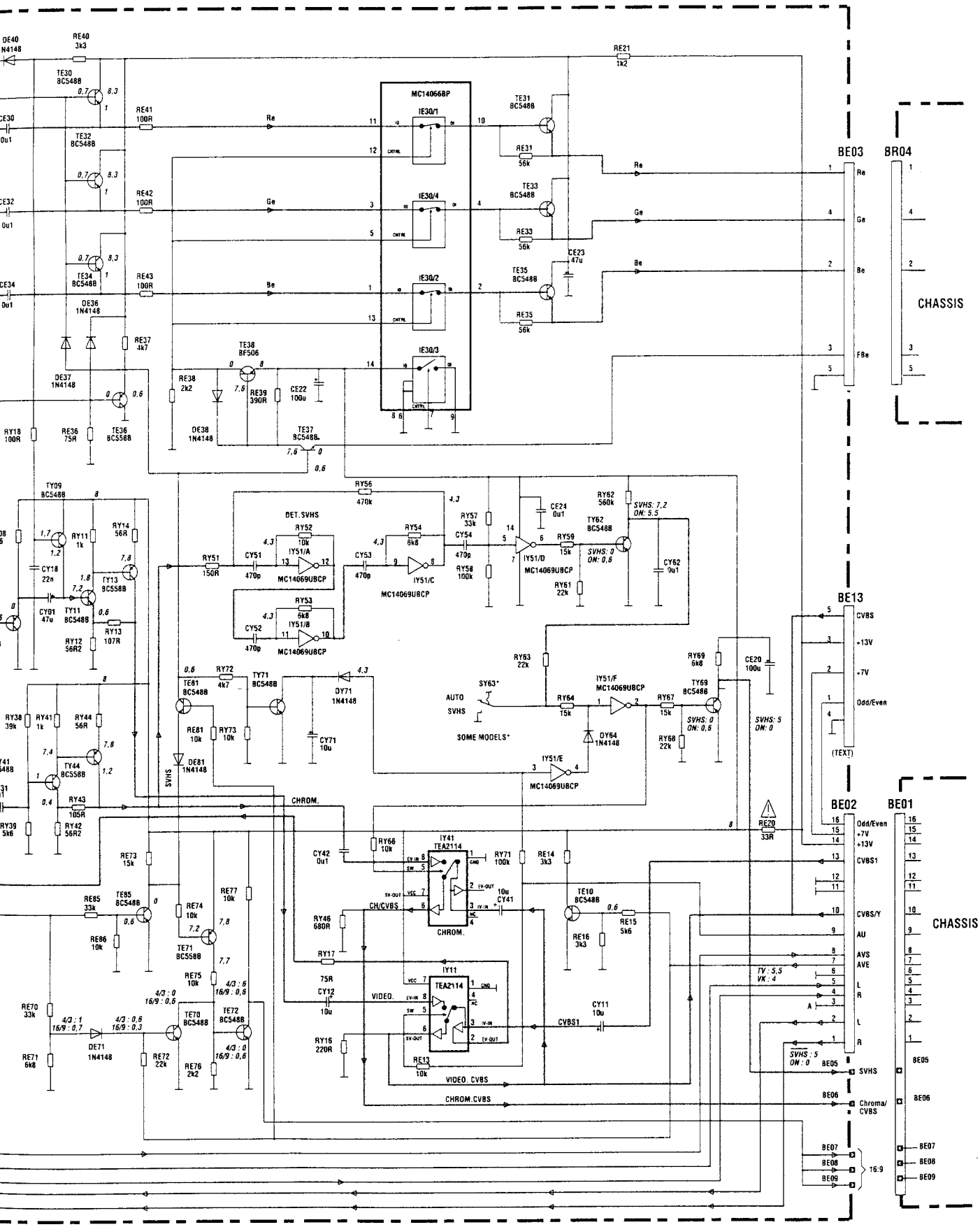
NS

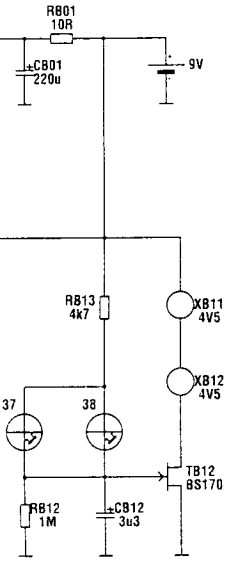

DG44
1N4148
CG43
1n
RG44
47k
RG45
47k
CG45
10n
RG39
4R7
LG39
u1
CG39
RG36
6k8
TG38
BD137
-16
T8
40Vpp-V
-28V
T5
210Vpp-V
SW1
RT
to CHASSIS
(vert.)


NI 2003
5V
CS05
100n
GND1
RS01
3K3
RS03
680R
CS03
1n
RW47
330k
CW30
470p
CW28
4n7
TS10
BC848
RW46
22k
CS18
2n2
RW48
1M8
RW49
100k
IS01
MAS7A101
TS01
BF599
CS01
4p7
MM8F4393
TS02
CW29
12p
CS06
33p
RS11
10k
CS20
1n0
QS01
5.824MHz
CS25
1n0
CS19
100n
CS22
100n
RS13
4k7
RS12
82K
CS12
4n7
CS17
330p
RS08
6k8
CS15
1n0
CS23
100n
CS39
100n
CS27
u47
CS14
4p7
DS02
MV209
RS02
3k3
RS04
2k2
CS28
4n7
CS02
10n
RW45
100k
CS36
82p
DS01
MV209
DS08
MV209
GND1
PIN NO | 9 | 10 | 11
NICAM | L | L | L
FM | H | L | L
NIC DUAL | L | H | L
NIC MONO | L | L | H
NAME | MUTE | C2 | C1
IS09
PIN NO | 9 | 10
NICAM | H | H
FM | L | L
MUTE | H | L
MUTE | L | H
A | B
IS06
RS80
100k
RS81
100K
RS83
100K
RS66
560R
QS05
5.5MHz
RW43
560R
CW25
10n
RS72
2k2
R+L/2
CW34
1n2
CS69
22n
GND8
CS71
1uF
RS84
100K
RS78
4K7
CW15
220uF
CS59
22n
CS66
22n
IS05
U2829
RS71
3k3
CS70
560p
LS03
6MHz
GND1
DS05
IN1418
12VC
RS68
10k
CW21
4u7
RW65
100k
CW52
4u7
0R
CS67
22u
GND11


NI 2003
NI
5V
GND3
CS40 47u
DS03 MV209
CS41 56p
CS43 100n
RS23 2k2
CS42 4n7
QS03 3u3
RS17 10k
RS18 10k
RS19 10k
RS20 3.3k
RS21 3.3k
RS22 3.3k
RS24 1.2k
RS25 10k
RS26 10k
RS27 10k
RS28 10k
RS29 10k
IS02 CF70124
IS03 TDA1543
CS03 1n
RW51 100R
RW52 100R
RW53 100R
SYS B/G
JS01
JS02
CW30 470p
CW28 4n7
TS10 BC848
RW46 22k
CS18 2n2
RW48 1M8
IS01 MAS7A101
CW29 12p
CS06 33p
RS11 10k
CS20 1n0
QS01 5.824MHz
CS25 1n0
RW45 100k
CS36 82p
DS01 MV209
DS08 MV209
GND1
CS19 100n
CS22 100n
CS39 100n
CS27 u47
RS13 4k7
RS12 82K
CS21 12p
CS12 4n7
QS02 26.208MHz
CS17 330p
RS08 6k8
CS15 1n0
CS13 1n0
CS23 100n
RW50 100K
DS02 MV209
CS14 4p7
DS09 MV209
RS30 10k
RS32 10k
DS04 IN4148
RS31 10k
CS44 10u
RS33 10k
RS34 10k
RS35 10k
RS36 10k
RS37 10k
RS38 10k
RS39 10k
RS40 10k
GND2
CS45 100n
C1
C2
FAW
RS80 100k
RS81 100K
12VA
IS06 PC74HC4052
RS83 100K
RS82 100K
RS79 4k7
IS09 TCE2ACU
DS12 TZM/C2V4
DS11 TZM/C2V4
GND10
RS72 2k2 R+L/2
CS71 1uF
CW25 10n
CW34 1n2
CS69 22n
GND8
DS06 IN4148
RW36 10k
RW37 10k
DS07 IN4148
RW38 10K
RW35 10K
RS84 100K
RS85 100K
RS78 4K7
CW15 220uF
CS74 470u
TS07 BC848
RW39 4k7
GND9
CS59 22n
CS66 22n
IS05 U2829
RS71 3k3
CS70 560p
LS03 6MHz
GND1
12VC
RW33 10R 0.25W
RS73 33R 0.25W
RW26 12R 0.25w
RW28 10R 0.25w
LS06 10uH
IS08 7805
RW19 15R 0.25w
CW22 1000u
CW23 1000u
CW07 220u
CW35 100n
CW08 47n
GND15
L.H.C.
R.H.C.
CW46 1000u
CW58 3n3
CW59 3n3
DTR
CLK
RHC
CW09 3n3
CW40 2n2
GND12
RW65 100k
CW52 4u7
0R
CS67 22u
GND11
BS01
PIN NO 9 10
NICAM H H
FM L L
MUTE H L
MUTE L H
A B
IS06
10 11
L L
L L
H L
L H
C2 C1
IS09


BE04
SCART-1
BE14
SCART-2
BE01
FRONT
BW05
FCB
MC14066BP
MC14069UBCP
TEA2114
VIDEO
CHROM.
CHROM./SVHS
CH/CVBS
VIDEO. CVBS
CHROM.CVBS
DET.SVHS
AUTO
SVHS
SOME MODEL

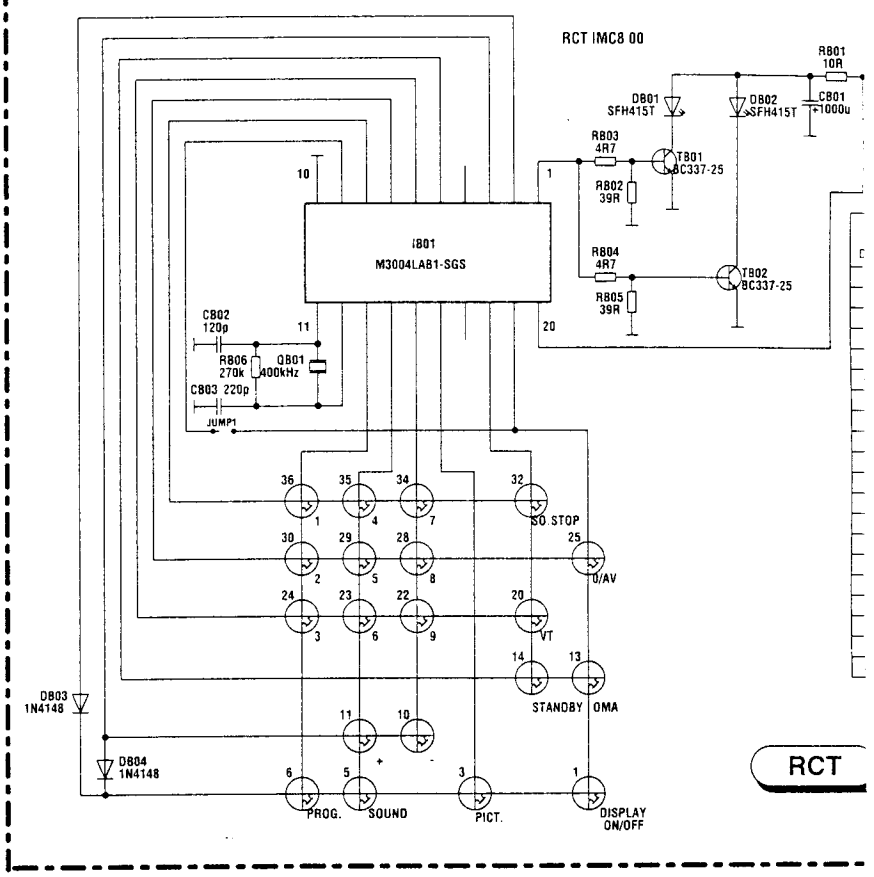

MC14066BP
IE30/1
IE30/4
IE30/2
IE30/3
BE03
BR04
CHASSIS
BE13
BE02
BE01
CHASSIS
DET. SVHS
MC14069UBCP
IY51/A
IY51/C
IY51/D
IY51/B
IY51/F
IY51/E
SOME MODELS*
AUTO
SVHS
CHROM.
IY41
TEA2114
IY11
TEA2114
VIDEO.
VIDEO. CVBS
CHROM.CVBS
CH/CVBS
CVBS1
Re
Ge
Be
FBe
CVBS
+13V
+7V
Odd/Even
(TEXT)
CVBS1
CVBS/Y
AU
AVS
AVE
L
R
SVHS
Chroma/
CVBS
16:9



RC 1341

IR-CODE			MODE: TV FLASH
DEZ.	HEX.	BIN.	SUBCODE: 111
00	00	000000	1
01	01	000001	4
02	02	000010	7
05	05	000101	So.Stop
08	08	001000	2
09	09	001001	5
10	0A	001010	8
14	0E	001110	0/AV
16	10	010000	3
17	11	010001	6
18	12	010010	9
21	15	010101	VT
29	10	011101	Standby
30	1E	011110	NORM
41	29	101001	+
42	2A	101010	-
56	38	111000	Prog.
57	39	111001	Sound
59	3B	111011	Pict.
62	3E	111110	Disp.on/off

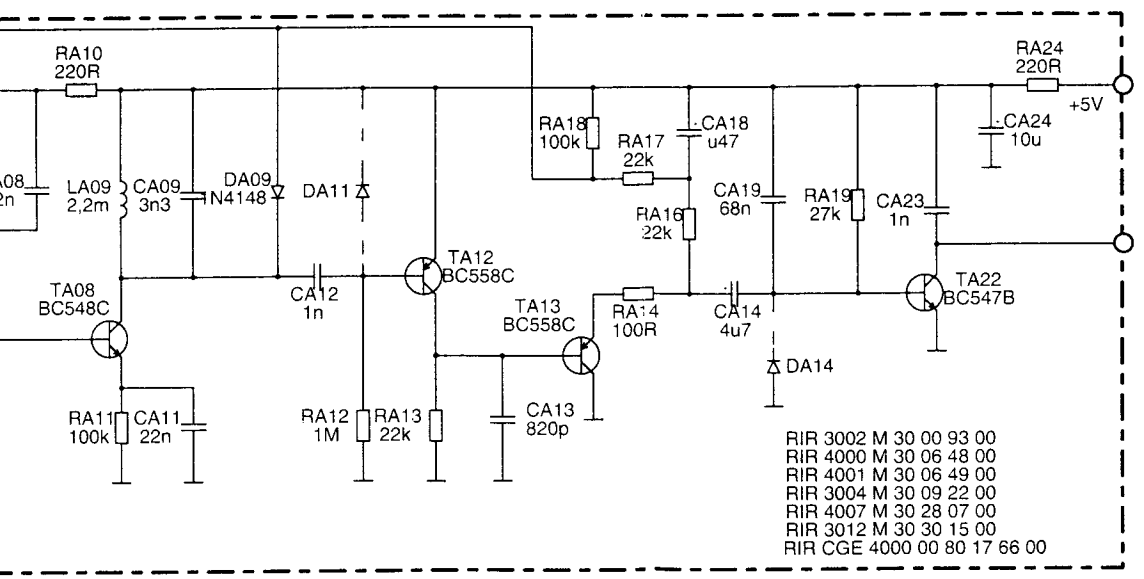
RCT RCT1341



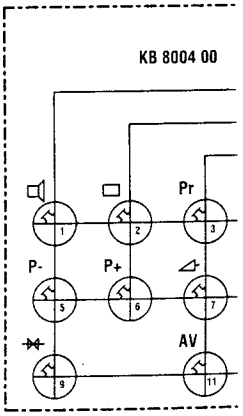
RCT

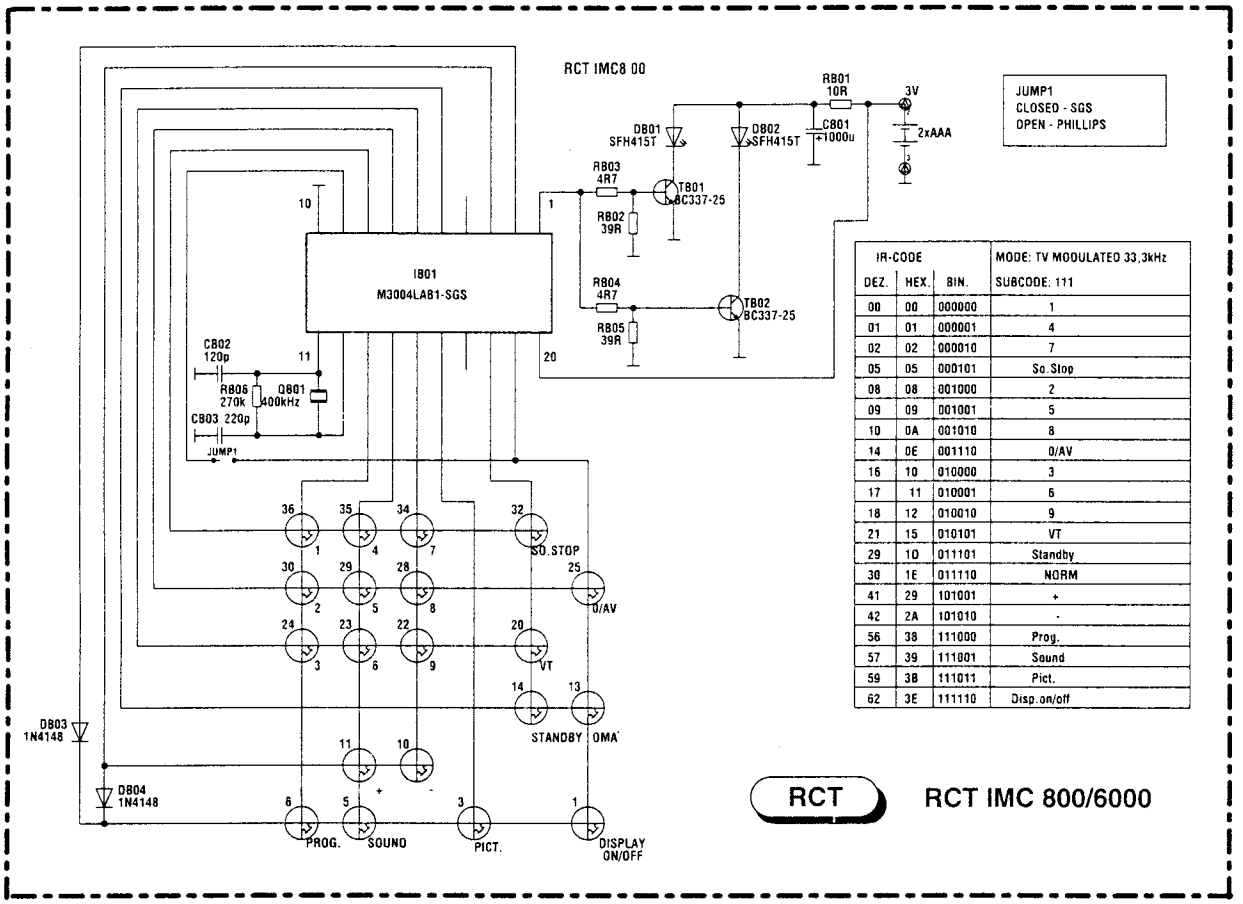
RIR4000/4008

KB



RIR 3002 M 30 00 93 00
RIR 4000 M 30 06 48 00
RIR 4001 M 30 06 49 00
RIR 3004 M 30 09 22 00
RIR 4007 M 30 28 07 00
RIR 3012 M 30 30 15 00
RIR CGE 4000 00 80 17 66 00





IR-CODE			MODE: TV MODULATED 33,3kHz
DEZ.	HEX.	BIN.	SUBCODE: 111
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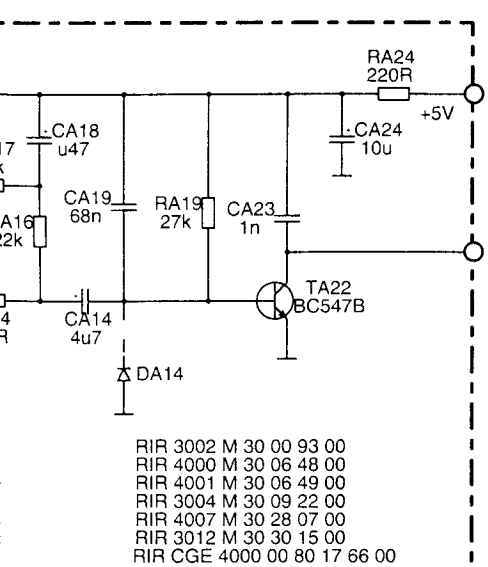
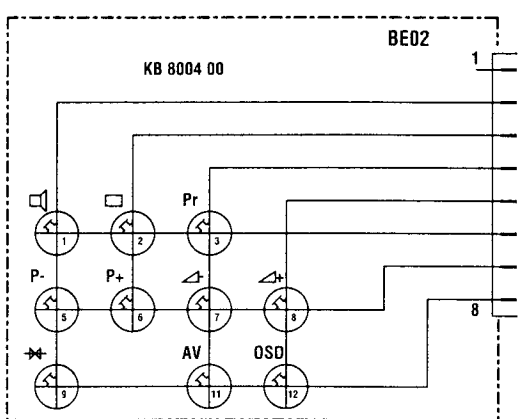
01	01	000001	4
02	02	000010	7
05	05	000101	So.Stop
08	08	001000	2
09	09	001001	5
10	0A	001010	8
14	0E	001110	0/AV
16	10	010000	3
17	11	010001	6
18	12	010010	9
21	15	010101	VT
29	1D	011101	Standby
30	1E	011110	NORM
41	29	101001	+
42	2A	101010	-
56	38	111000	Prog.
57	39	111001	Sound
59	3B	111011	Pict.
62	3E	111110	Disp.on/off

RCT RCT IMC 800/6000

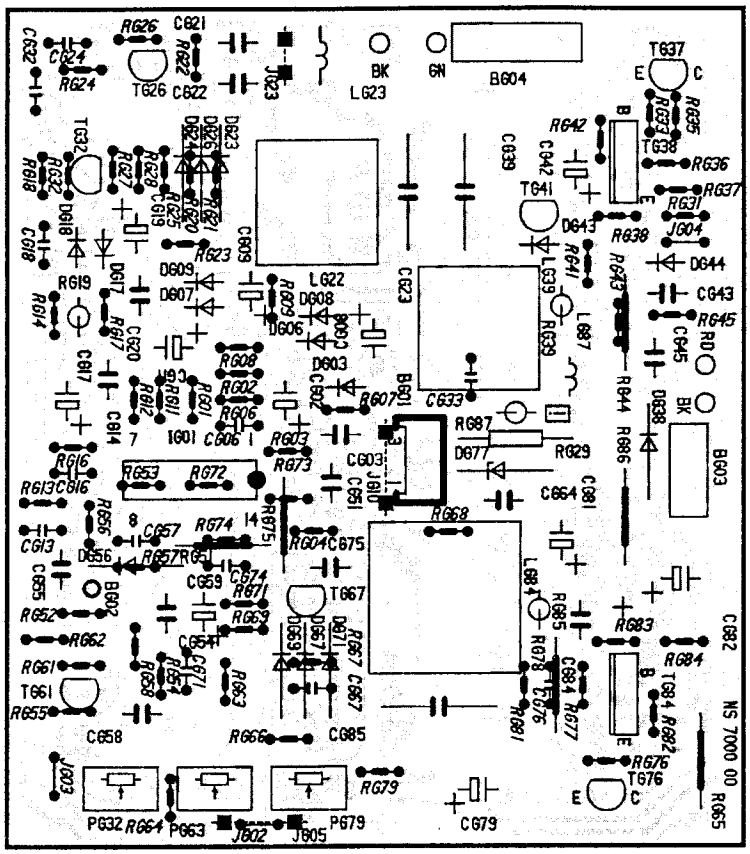
KB KB 8004



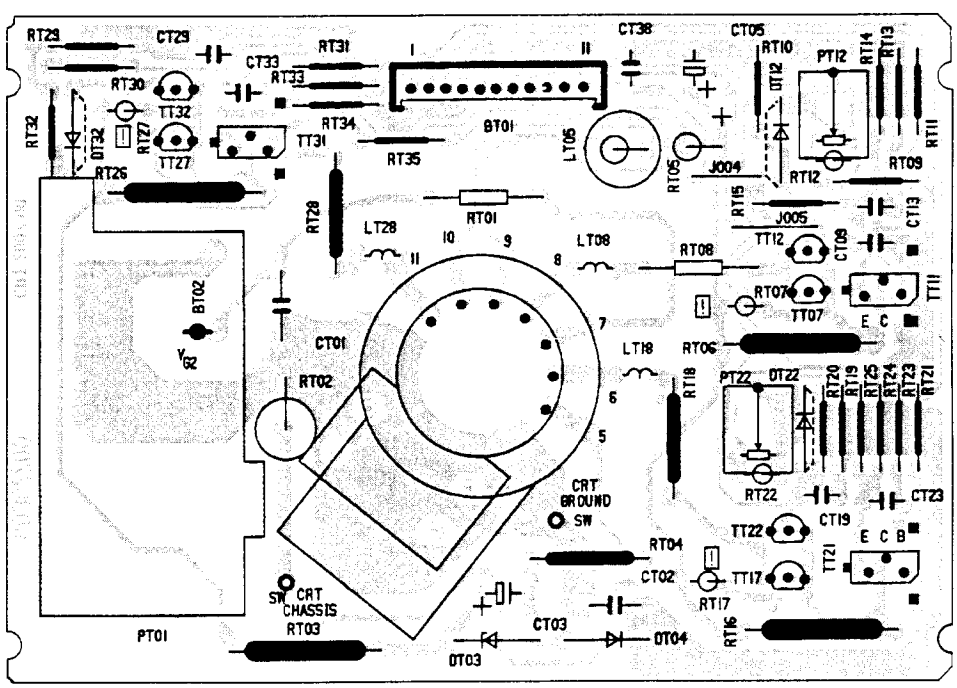
RIR 3002 M 30 00 93 00
RIR 4000 M 30 06 48 00
RIR 4001 M 30 06 49 00
RIR 3004 M 30 09 22 00
RIR 4007 M 30 28 07 00
RIR 3012 M 30 30 15 00
RIR CGE 4000 00 80 17 66 00



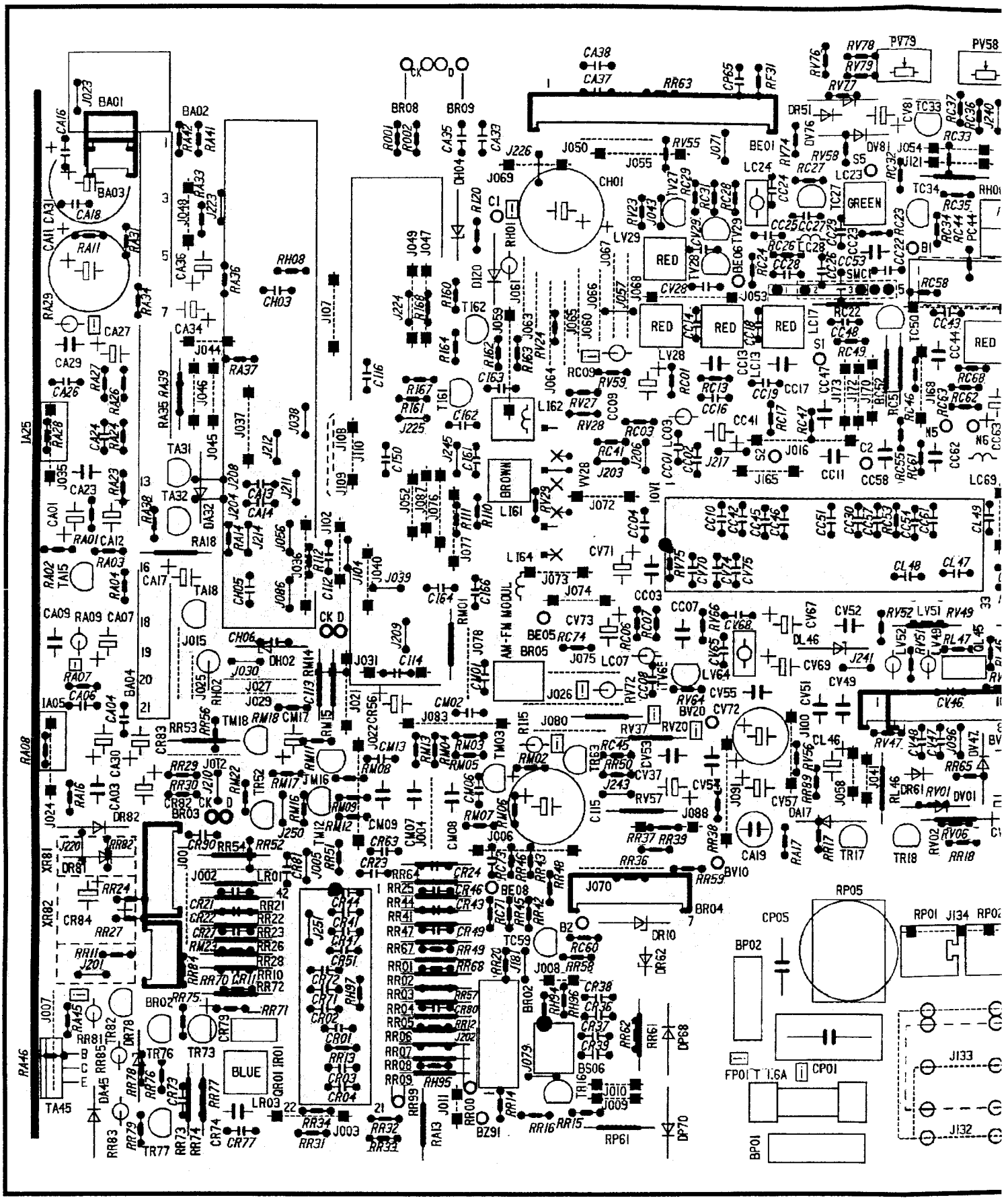
NS 7000/8000/8002



CRT 2007/7000



(SOLDER SIDE - COTE CUIVRE - LOTSEITE - LADO DEL COBRE - LATO SALDATURE)


BA01
BA02
BA03
BR08
BR09
CH01
CH03
CH04
CH05
CH06
RED
GREEN
BLUE
BROWN
AM-FM MODUL
BZ91
BS06
TR76
TR73
TR77
TR74
TR52
TR17
TR18
TA45
TA31
TA32
TA18
DR82
DR81
DR10
DR62
BP02
CP05
RP05
RP61
FP01 T 1.6A
CP01
BP01
SW01
S5
BE01
BE05
BE06
BE08
LV28
LV29
LV64
LV51
CA38
CA37
RR63
RR54
RR52
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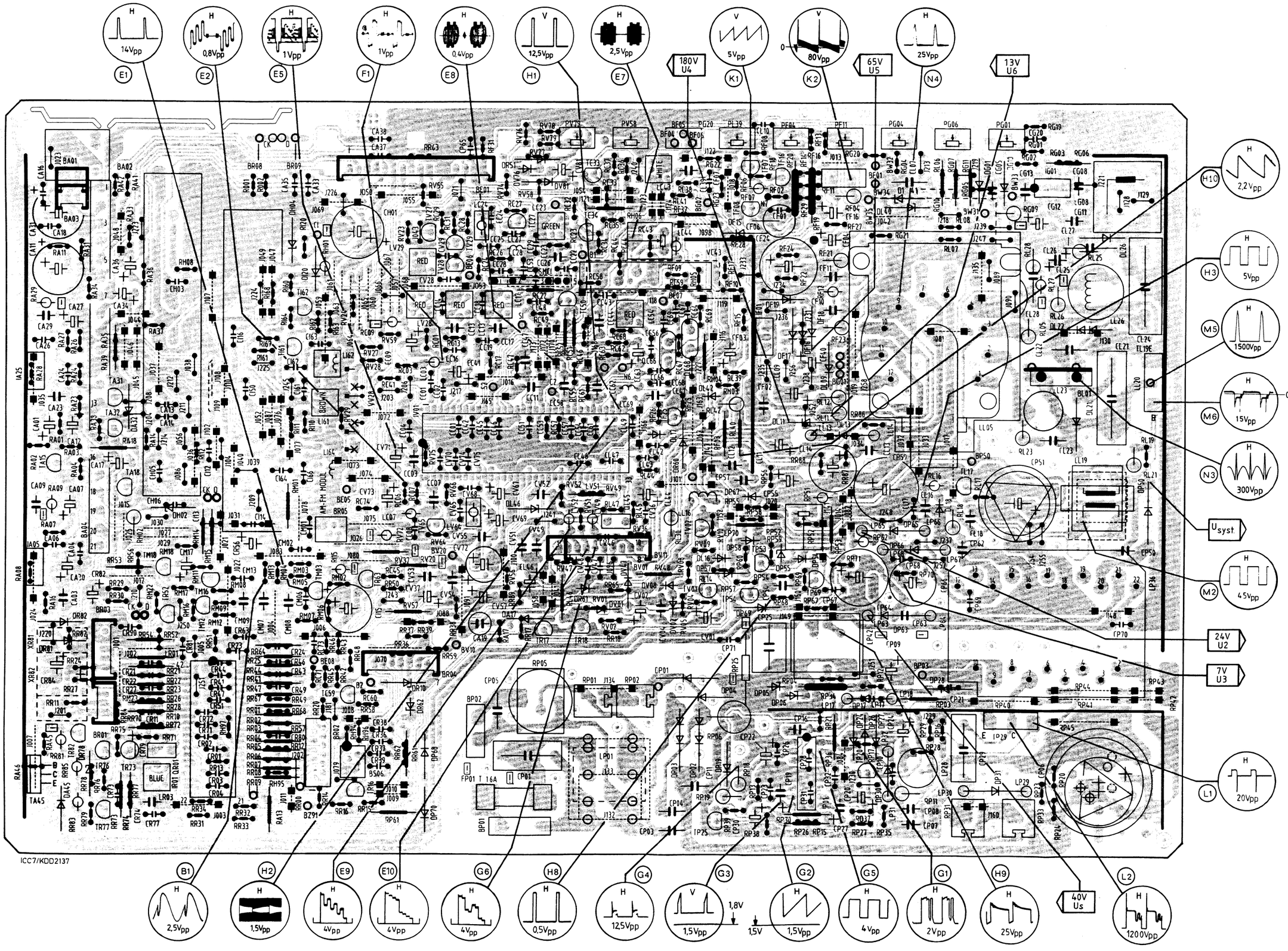
CC93
CC94
CC95
CC96
CC97
CC98
CC99
CC100
CC101
CC102
CC103

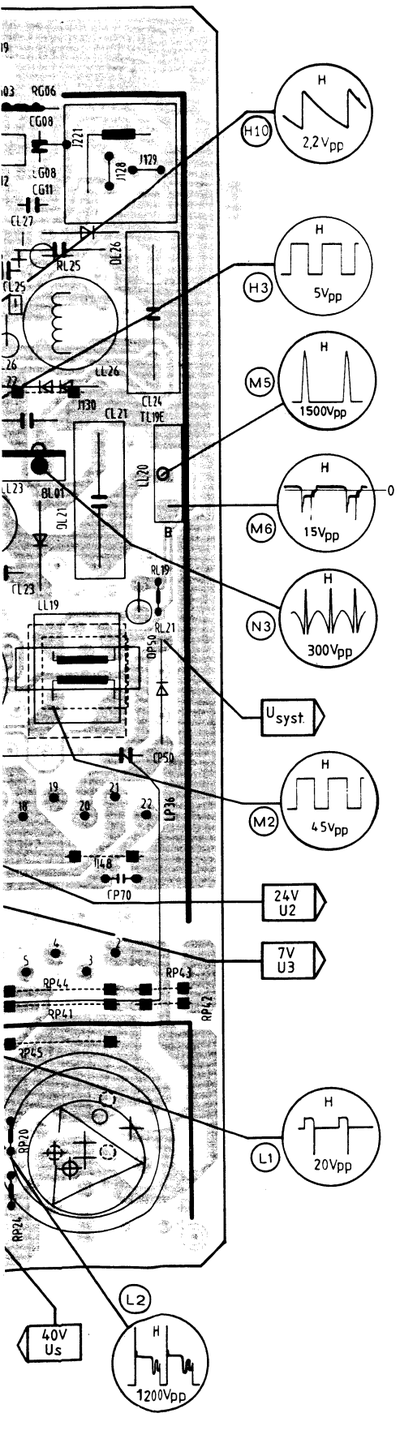
Chassis-Grundplatte · Chassis base board · Plaque de base du chassis · Piastra base telaio · Chasis placa base

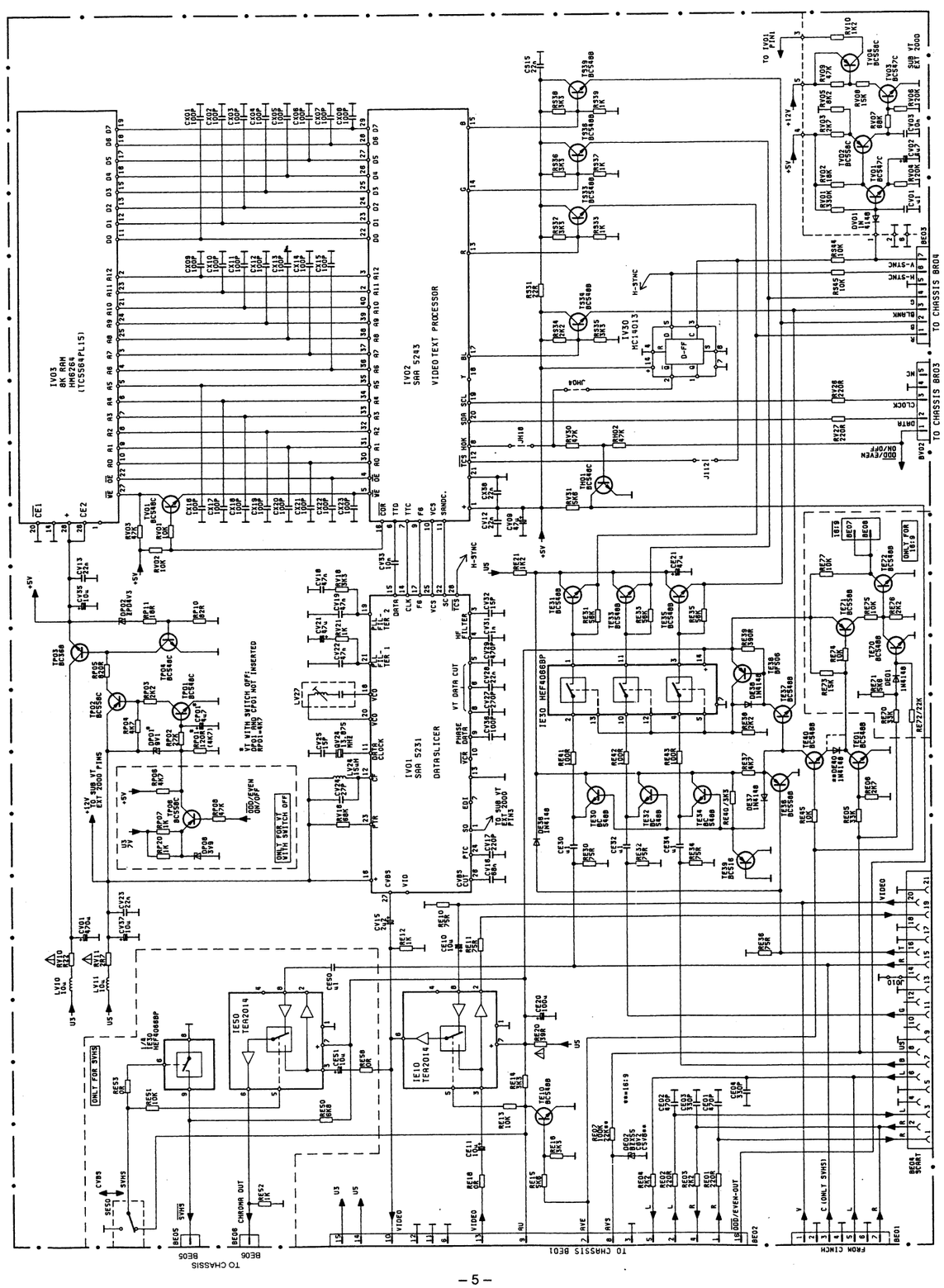
Lötseite · Solder side · Côté soudure · Lato saldature · Lado soldaduras



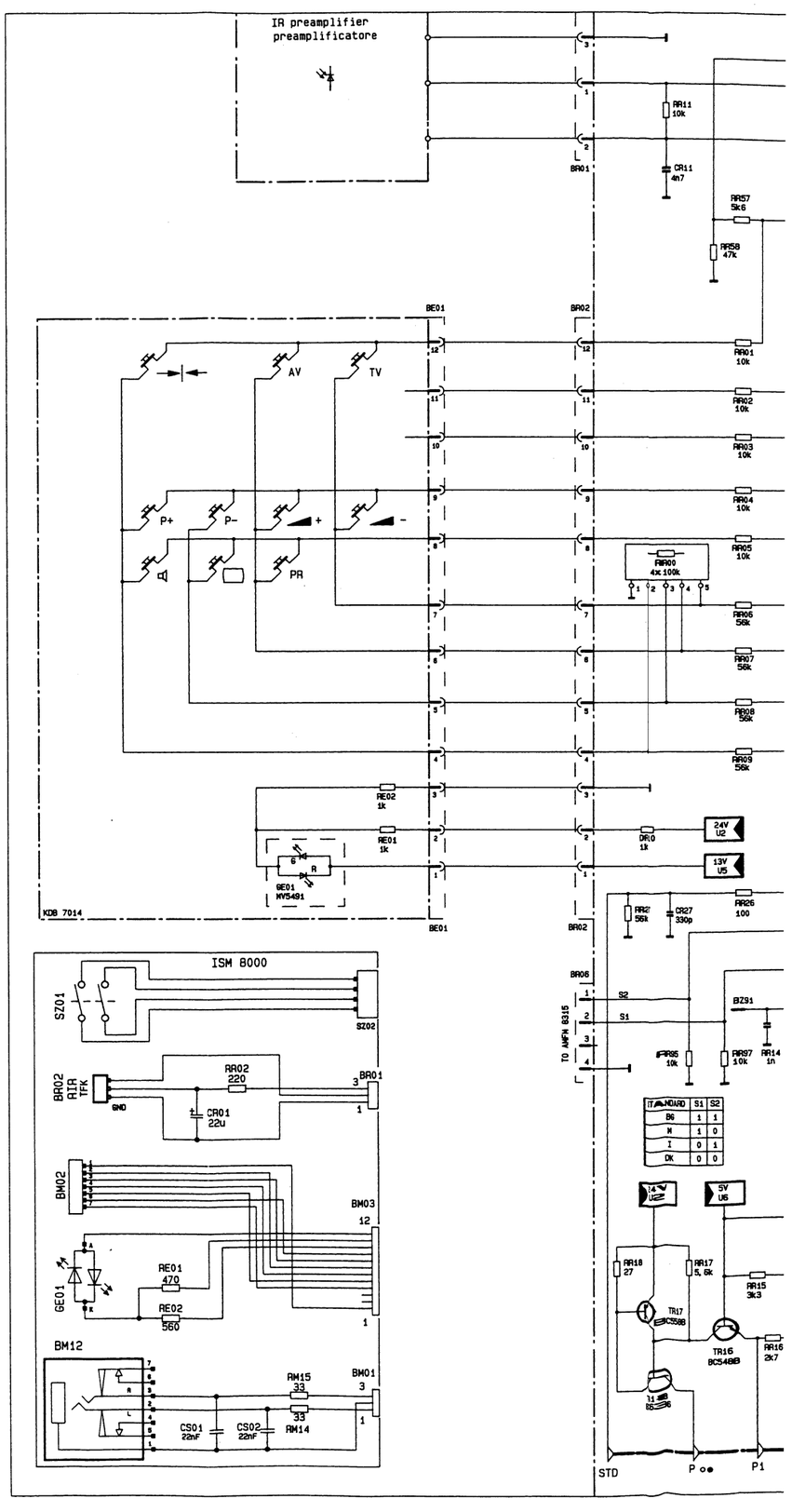
Videotext-Decoder
Teletext Decoder
Décodeur Vidéotexte
Decoder Televideo
Descodificador Teletexto

DVT 2012 SVHS
DVT 2013 SVHS/16:9
DVT 2014



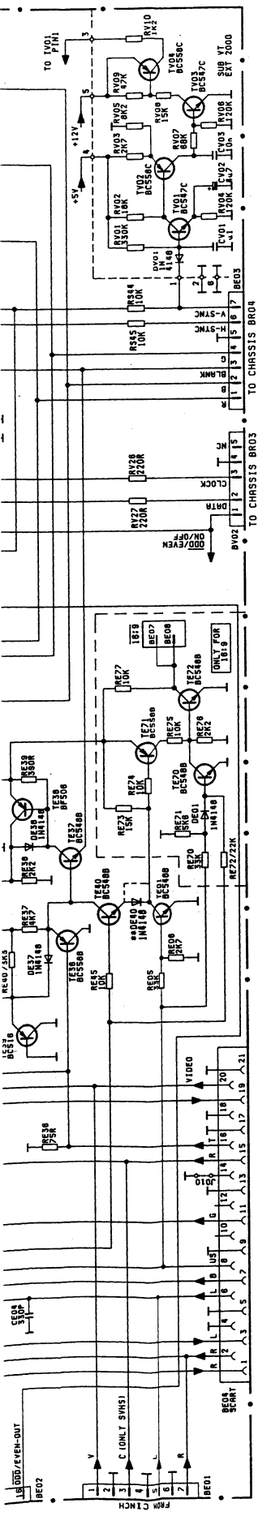


Chassis ICC 8

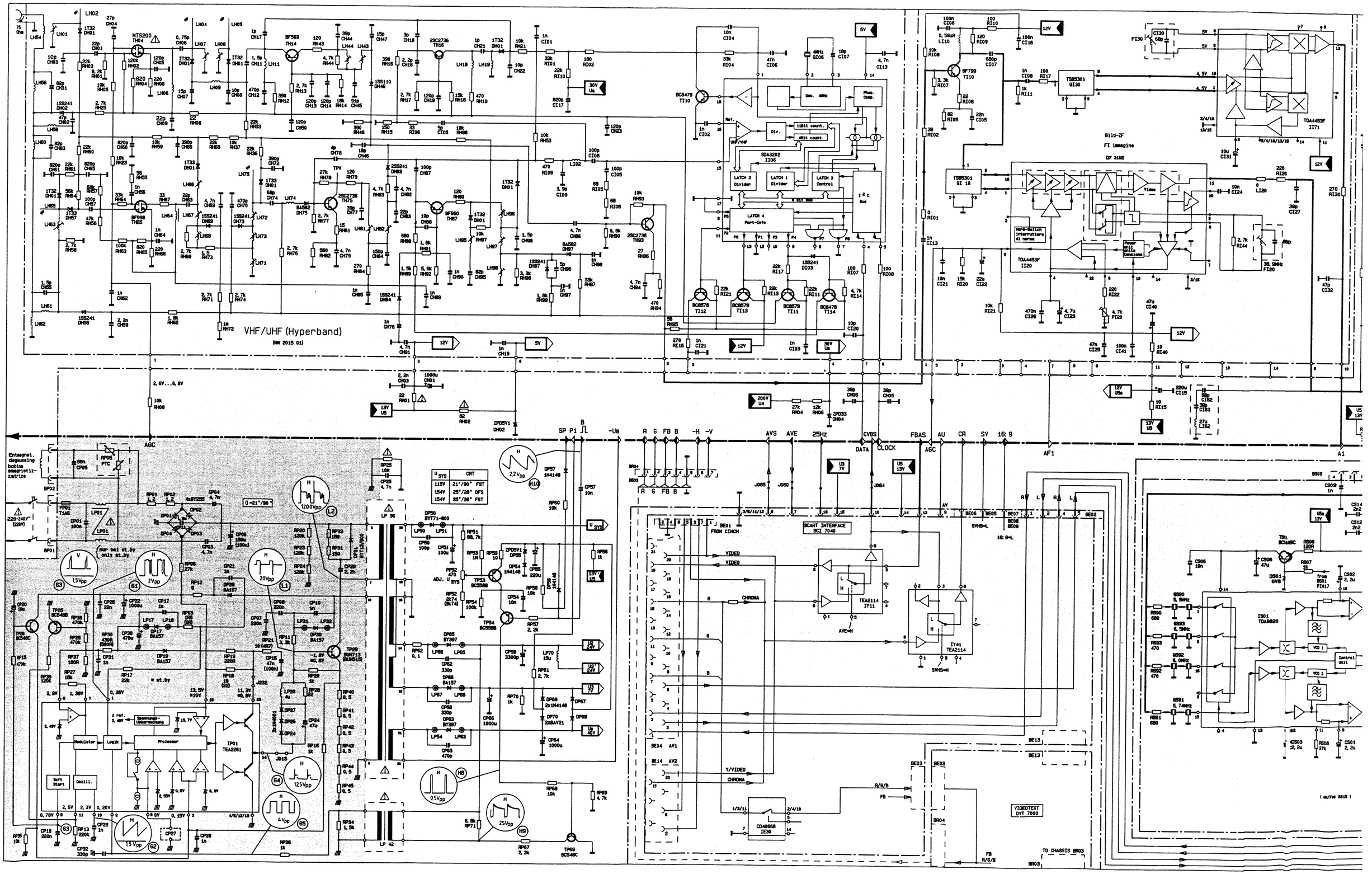


2 SVHS
3 SVHS/16:9
4

Chassis ICC 8



Chassis ICC 8



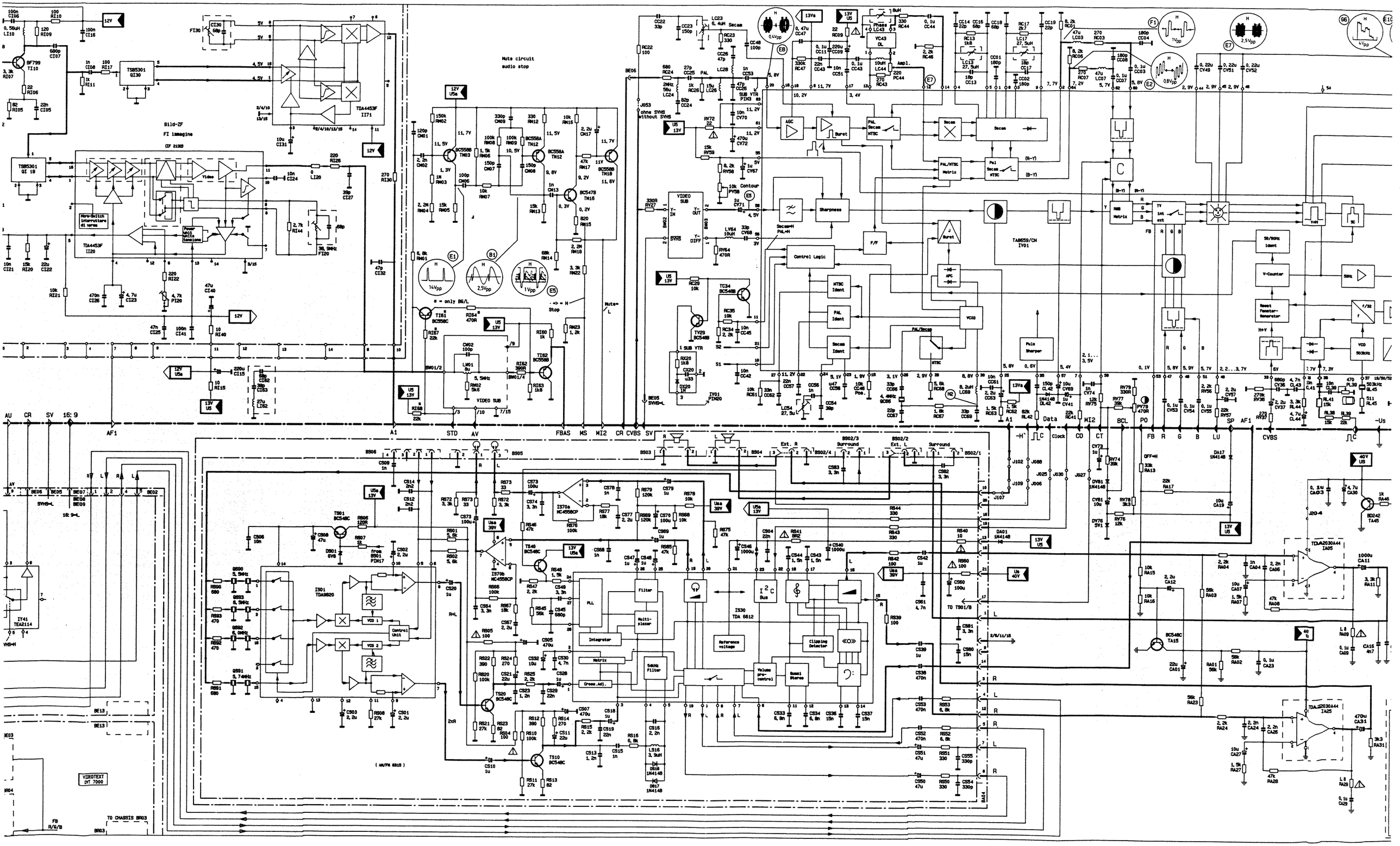
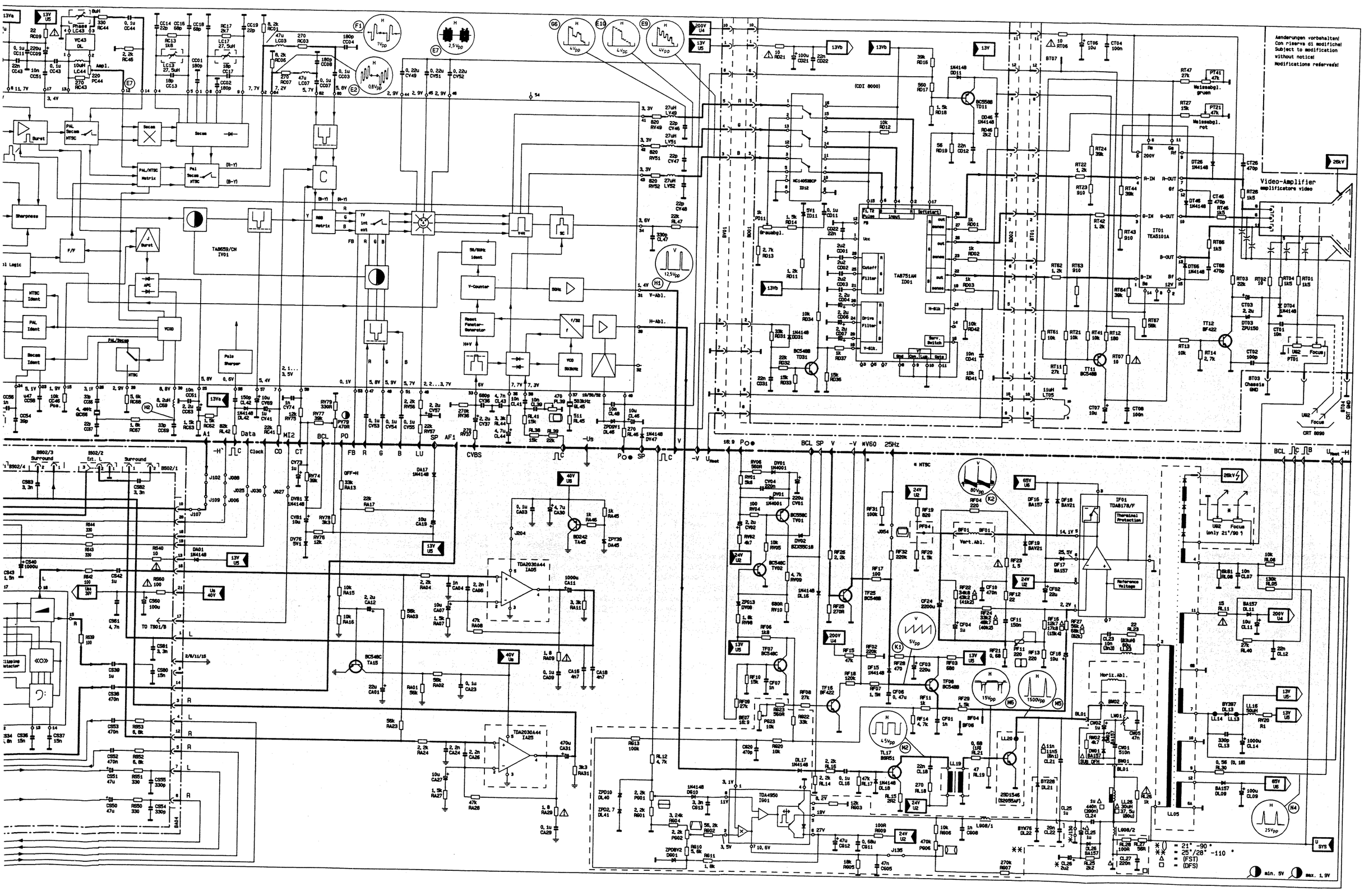
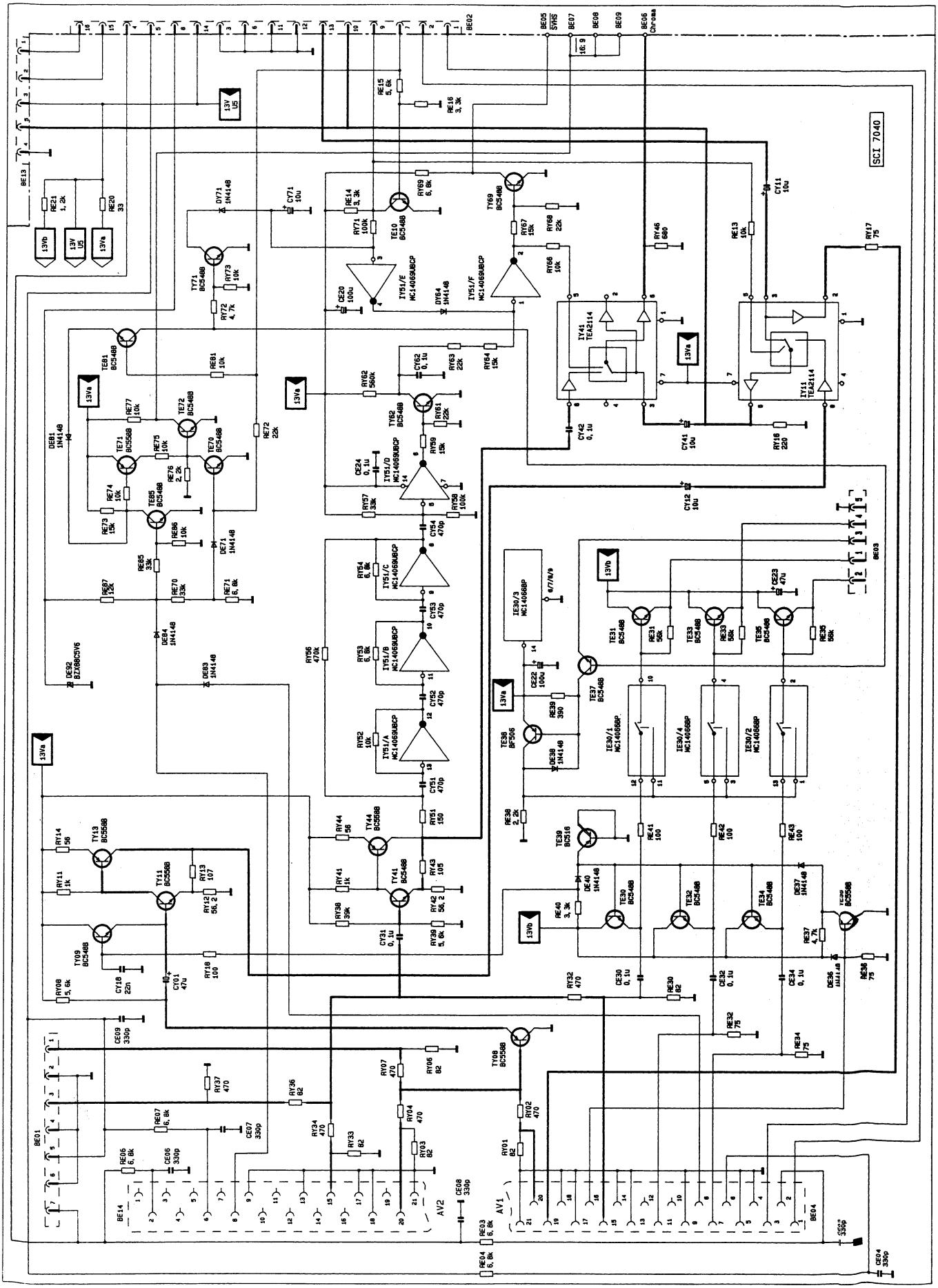


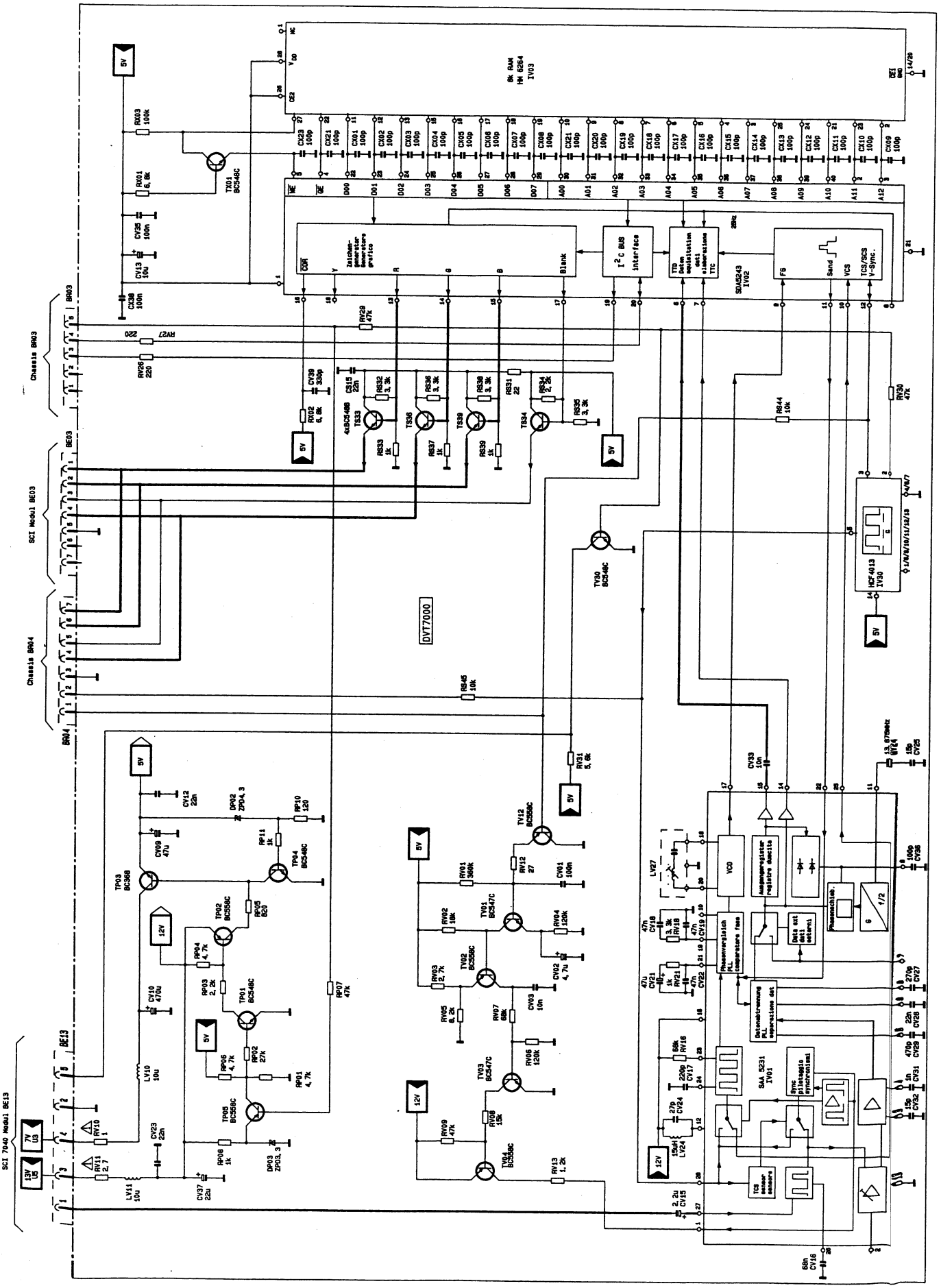
Bild-ZF
FI Imagine
Mute circuit
audio stop
TDA4453F
TS85301
VIDEO SUB
TDA6659/CN
IV01
Control Logic
Sharpness
Burst
PAL Secam NTSC
Secam
PAL/NTSC Matrix
RGB Matrix
Pal Secam NTSC
F/F
APC
VCXO
NTSC Ident
PAL Ident
Secam Ident
Pulse Sharper
V-Counter
Reset Pointer-Generator
50/60Hz Ident
50Hz
f/32
VCO
503kHz
TV int ext
Contour
Matrix
Power unit, valid tensions
Mute= L
Stop
s = only BG/L
VIDEO SUB
VIDEOTEXT DVT 7000
TO CHASSIS BR03
TO TS01/B
IS01 TDA9820
IS30 TDA 6512
Filter
PLL
Multi-plexer
Integrator
Matrix
Cross.Adj.
Control Unit
VCO 1
VCO 2
Reference voltage
Clipping Detector
Volume pre-control
Tunnel Stereo
54kHz Filter
I²C Bus
TDA2030A44
Ext. R
Ext. L
Surround
Clock
Data
CVBS
SP
AF1
AU
CR
SV
16: 9
STD
AV
FBAS
MS
MI2
CR
CVBS
SV
A1
FB
R
G
B
LU
BCL
PO
CT
CO
CI
DA17 1N4148
DA01 1N4148
DB16 1N4148
DB17 1N4148
DV81 1N4148
DY76 5V1
DY78 3k3
OFF=H
TO CHASSIS BR03
VHS-H
VHS-L
SVHS-L
16: 9-L
ohne SVHS
without SVHS
Secam=H
PAL=H
Stop
Mute= L
(AM/FM 8315)

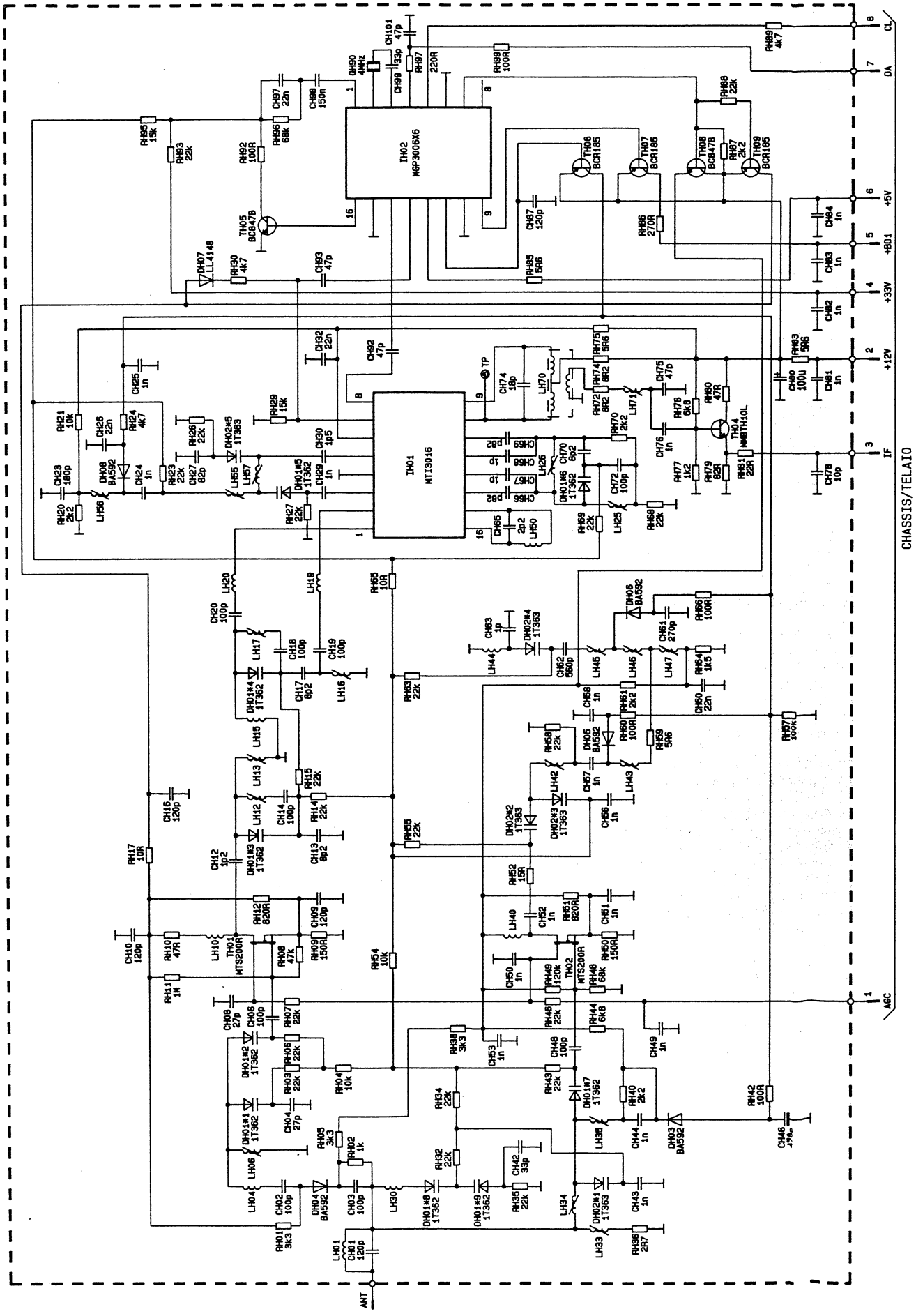

Aenderungen vorbehalten!
Con riserva di modifiche!
Subject to modification without notice!
Modifications reserved!
Video-Amplifier
amplificatore video
Burst
PAL Secam NTSC
Secam
PAL/NTSC Matrix
Sharpness
F/F
PAL Ident
Secam Ident
NTSC Ident
VCXO
TA8659/CH
IV01
TV int ext
RGB Matrix
V-Counter
Reset Fenster-Generator
50Hz
TDA2030A44
IA05
IA25
TDA4950
IG01
TA8751AN
ID01
TDA8178/F
Thermal Protection
Reference Voltage
Vert.Abl.
Horiz.Abl.
IT01
TEA5101A
TT11
BC548B
TT12
BF422
TF07
TF08
TF15
TF25
BC548C
BC548B
BC556B
BC550C
BC546B
BF422
BSR51
2SD1546
(S2055AF)
TL17
Phase
VC43
Ampl.
Pulse Sharper
Data
Clock
CVBS
Surround
Ext. L
Focus
CRT 8090
(CDI 8000)
* NTSC
= 21° -90°
= 25°/28° -110°
= (FST)
= (DFS)
min. 5V
max. 1.9V

Scart-Anschluß SCI 7040 · Scart Interface · Module Péritélévisione · Modulo Scart

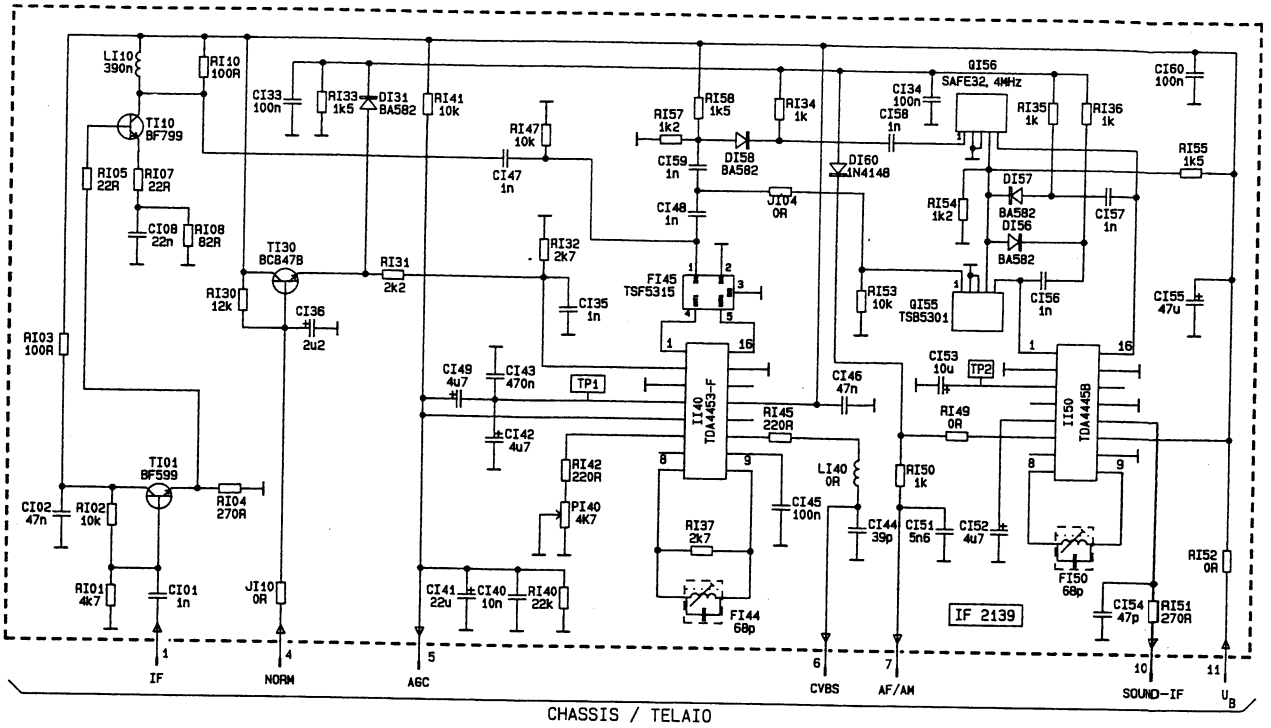


Videotext-Decoder DVT 7000 · Teletext Decoder · Décodeur Vidéotexte · Decoder Televideo · Descodificador Teletexto

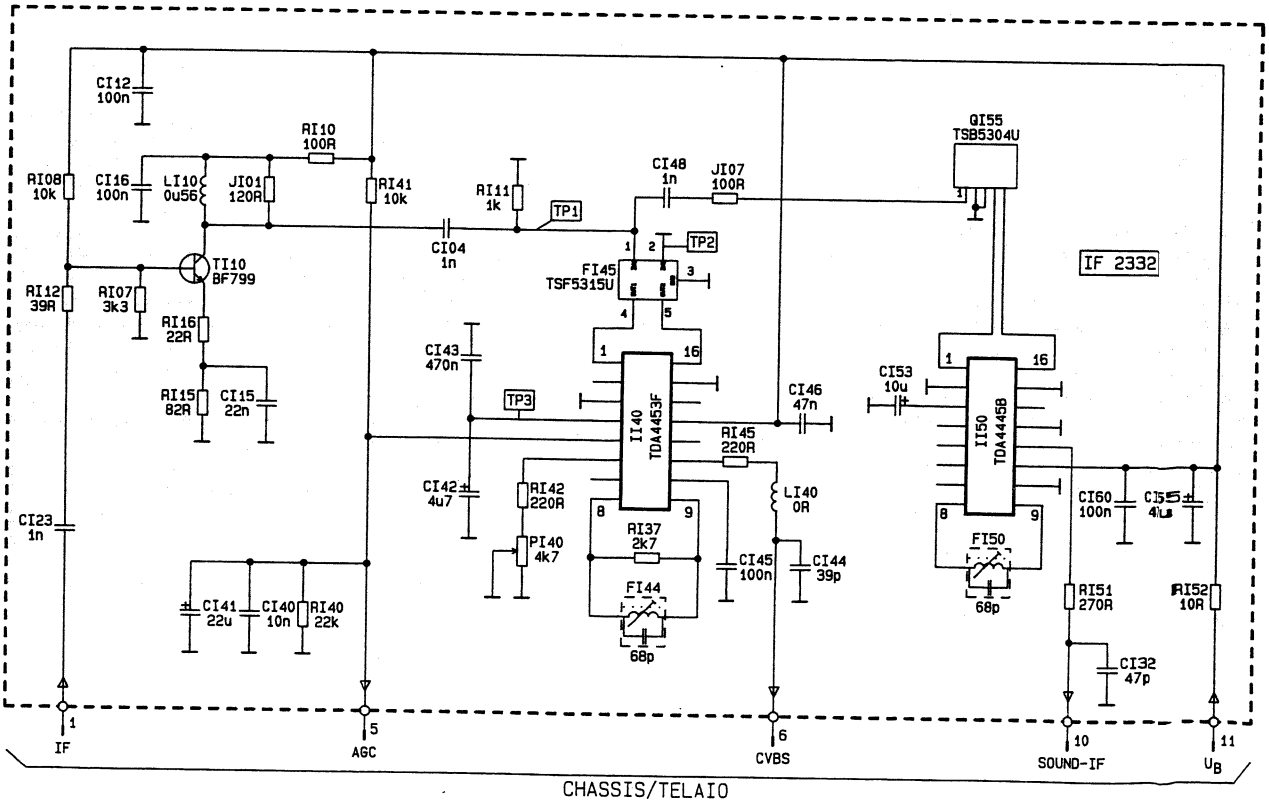



CHASSIS/TELAIO
IH01 MT3016
IH02 M6P3006X6
TH01 MTS200R
TH02 MTS200R
TH03 BC847B
TH04 MMBTH10L
TH05 BC847B
TH06 BCR185
TH07 BCR185
TH08 BC847B
TH09 BCR185
QH90 4MHz
DH01 1T362
DH02 1T363
DH03 BA592
DH04 BA592
DH05 BA592
DH06 BA592
DH07 LL4148
DH08 BA592
ANT
AGC
IF
+33V
+12V
+5V
DA
CL

ZF-Verstärker IF 2139 · IF Amplifier · Amplificateur FI · Amplificatore FI · Amplificador F



ZF-Verstärker IF 2332 · IF Amplifier · Amplificateur FI · Amplificatore FI · Amplificador F



Ersatzteile · Spare parts list · Liste de pièces de rechange · Lista parti di ricambio Lista de piezas de recambio

Wichtig: Bei Ersatzteilbestellungen bitte unbedingt die entsprechende Bestellnummer angeben!
N. B.: When demanding Spare Parts it is absolutely necessary to quote the corresponding part number!
Important: Lors d'une commande de pièces de rechange, prière d'indiquer et tout cas le numéro de la pièce!
Importante: Ordinare sempre con il numero correspondenti di codice!
Importante: Pedir siemple lis recambios con el numero correspondiente codigo!

Pos.	Art.-Nr. Part No.	Bezeichnung	Part
		MODULE/AUSTAUSCHTEILE:	**EXCHANGE PARTS:**
AMFM8315	349.354.403	AMFM8315U LTP TON-MODUL	AMFM8315U PCB SOUND
CDI8000	349.354.409	CDI8000U LTP CUT-OFF	CDI8000U PCB CUT-OFF
DVT2013	349.353.983	DVT2013U LTP VIDEOTEXT	DVT2013U PCB TELETEXT
DVT7000	593.753	DVT7000U LTP VIDEOTEXT	DVT7000U PCB TELETEXT
IF2132	349.354.303	IF2132 ZF-VERSTÄRKER	IF2132 UNIT, IF
IF2139	349.354.322	IF2139 ZF-VERSTÄRKER	IF2139 UNIT, IF
IF2332	101.299.00	IF2332 ZF-VERSTÄRKER	IF2332 UNIT, IF
IF2339	101.298.40	IF2339 ZF-VERSTÄRKER	IF2339 UNIT
MTP2015	349.357.098	MTP-MM2015 TUNER (Hyperband)	MTP-MM2015 TUNER
MTP4015	101.112.10	MTP4015 TUNER	MTP4015 TUNER
SCI7040	349.378.174	SCI7040U LTP SCHNITTSTELLE	SCI7040U PCB INTERFACE
		BAUGRUPPEN(KEIN AUSTAUSCH):	**MODULES:**
CRT8011	490.007.9966	CRT8011 LTP BILDROHRANSCHLUSS	CRT8011 PCB CRT-SOCKET
CRT8050	490.007.8790	CRT8050 LTP BILDROHRANSCHLUSS	CRT8050 PCB CRT-SOCKET
CRT8090	110.073.95	CRT8090 LTP BILDROHRANSCHLUSS	CRT8090 P.C.B. CRT-SOCKET
DFH7062	490.007.8825	DFH7062 LTP SUBMODUL	DFH7062 SUB P.C.B.
LDN8006	250.569.10	LDN8006 LTP FREQUENZWEICHE	P.C.B., FREQ. DIVIDER NETWORK
VIDEO	490.007.9938	VIDEO/8110 BG-SVHS	VIDEO/8110 PCB SUB
VIDEO	490.007.9944	VIDEO/8310 BGL-SVHS SUB MODUL	VIDEO/8310 PCB SUB
VTR7030	243.361	VTR7030 LTP SUBMODUL	VTR7030 SUB P.C.B.
		CHASSIS-TEILE	**CHASSIS PARTS**
BE001	239.055	Stiftgehäuse, 16polig, natur UF	16 pin contact housing
BR001	309.650.061	Stiftleiste, 3polig, rot UF	Contact strip, 3-pole, red
BR002	260.789	Stiftleiste, 12polig, schwarz	Contact strip, 12-pole, black
BR003	243.597	Stiftleiste, 5polig, UF	Contact strip, 5-pole
BR004	243.598	Stiftleiste, 7polig, natur UF	7 pin wafer
BS006	266.713	Stiftleiste, 4polig, schwarz	Contact strip, 4-pole, black
BV011	309.650.064	Stiftleiste, 10polig, natur UF	Contact strip, 10-pole
CA019	252.475	10UF 16V Elko Bipolar	10UF 16V E cap
CL007	207TX3126	0U01F 400V 5% Kondensator	0U01F 400V 5% Capacitor
CL009	239.094	100UF 100V 10% Elko	100UF 100V 10% E cap
CL011	239.322	10UF 250V 20% Elko	10UF 250V 20% E cap
CL013	256.729	330PF 400V 10% Keramik-Kondensator	330PF 400V 10% C cap
CL021	309.433.764	11NF 1K6V 3,5% Filmkondensator	11NF 1K6V 3,5% Film cap
CL021	309.433.771	11N5F 1K6V 3,5% KPS-Kondensator	11N5F 1K6V 3,5% Film cap
CL021	490.007.9641	6N1F 1K6V 3,5% Filmkondensator	6N1F 1K6V 3,5% Film cap
CL022	266.728	12NF 400V 5% Filmkondensator	12NF 400V 5% Film cap
CL022	309.433.772	20NF 400V 5% MKP-Kondensator	20NF 400V 5% MKPoly cap
CL023	239.096	3N3F 400V 10% MP-Kondensator	3N3F 400V 10% MPoly cap
CL024	243.539	1UF 250V 10% MP-Kondensator	1UF 250V 10% MPoly cap
CL024	309.433.765	440NF 250V 5% Filmkondensator	440NF 250V 5% Film cap
CL024	309.433.768	390NF 250V 10% Filmkondensator	390NF 250V 10% Film cap
CL025	256.728	1UF 160V Elko	1UF 160V E cap
CL026	246.576	2U2F 160V Elko	2U2F 160V E cap
CL028	207TX2633	330NF 100V 10% MP-Kondensator	330NF 100V 10% MPoly cap
CP001	252.320	0U1F 275V 20% MP-Kondensator	0U1F 275V 20% MPoly cap
CP003	100.587.40	4N7F 1KV Keramik-Kondensator	4N7F 1KV C cap
CP004	100.587.40	4N7F 1KV Keramik-Kondensator	4N7F 1KV C cap
CP006	309.418.404	150UF 385V Elko	150UF 385V E cap
CP006	490.007.9642	100UF 385V 20% Elko	100UF 385V 20% E cap
CP011	309.442.972	1N5F 1KV Keramik-Kondensator	1N5F 1KV C cap
CP024	239.137	47UF 100V 20% Elko	47UF 100V 20% E cap
CP025	309.441.640	4N7F 400V 20% Keramik-Kondensator	4N7F 400V 20% C cap
CP029	266.245	2N2F 1KV 20% MPP-Kondensator	2N2F 1KV 20% MPoly cap
CP050	266.247	100PF 1KV 20% Keramik-Kondensator	100PF 1KV 20% C cap
CP051	309.419.428	150UF 200V Elko	150UF 200V E cap
CP062	256.729	330PF 400V 10% Keramik-Kondensator	330PF 400V 10% C cap
CP063	256.852	470PF 400V 10% Keramik-Kondensator	470PF 400V 10% C cap
CW001	100.779.60	510N0F 250V 5% Filmkondensator	510N0F 250V 5% Film cap
CW002	256.728	1UF 160V Elko	1UF 160V E cap
CW005	207TX2219	47NF 250V 10% Filmkondensator	47NF 250V 10% Film cap
DA017	309.325.927	1N4148 Diode	1N4148 Diode
DA045	309.327.135	ZPY39 1,3W 2% ZENER Diode	ZPY39 1,3W 2% ZENER Diode
DF015	309.325.927	1N4148 Diode	1N4148 Diode
DF016	309.325.056	BA157 Diode SSW	BA157 Diode
DF017	309.325.056	BA157 Diode SSW	BA157 Diode
DF018	309.325.179	BAV21 Diode	BAV21 Diode
DF019	309.325.179	BAV21 Diode	BAV21 Diode

Pos.	Art.-Nr. Part No.	Bezeichnung	Part
DG001	464.371	ZPD5,1 ZENER Diode	ZPD5,1 ZENER Diode
DG010	464.452	1N4148 Diode	1N4148 Diode
DH002	256.421	ZPD5V1 ZENER Diode	ZPD5V1 ZENER Diode
DH004	309.325.172	ZPD33V 0,5W 2% ZENER Diode	ZPD33V 0,5W 2% ZENER Diode
DL000	256.333	ZPD33V 0,5W 2% ZENER Diode	ZPD33V 0,5W 2% ZENER Diode
DL009	309.325.056	BA157 Diode SSW	BA157 Diode
DL011	309.325.056	BA157 Diode SSW	BA157 Diode
DL013	266.534	BY397 Diode	BY397 Diode
DL016	309.325.927	1N4148 Diode	1N4148 Diode
DL017	309.325.927	1N4148 Diode	1N4148 Diode
DL018	309.325.927	1N4148 Diode	1N4148 Diode
DL021	266.829	BY228 Diode mit Lötstift	BY228 Diode
DL022	266.280	BYW76 Diode	BYW76 Diode
DL026	309.325.056	BA157 Diode SSW	BA157 Diode
DL040	464.597	ZPD13 ZENER Diode	ZPD13 ZENER Diode
DL041	464.387	ZPD2,7 ZENER Diode	ZPD2,7 ZENER Diode
DL042	309.325.927	1N4148 Diode	1N4148 Diode
DL046	256.736	ZPD9V1 ZENER Diode	ZPD9V1 ZENER Diode
DP001	309.325.163	BY255 Diode	BY255 Diode
DP002	309.325.163	BY255 Diode	BY255 Diode
DP003	309.325.163	BY255 Diode	BY255 Diode
DP004	309.325.163	BY255 Diode	BY255 Diode
DP017	309.325.056	BA157 Diode SSW	BA157 Diode
DP019	309.325.056	BA157 Diode SSW	BA157 Diode
DP024	273TX0025	1N4001 Diode	1N4001 Diode
DP026	273TX0025	1N4001 Diode	1N4001 Diode
DP027	273TX0025	1N4001 Diode	1N4001 Diode
DP028	309.325.056	BA157 Diode SSW	BA157 Diode
DP030	309.325.056	BA157 Diode SSW	BA157 Diode
DP031	339.529.958	BYT13-600 Diode	BYT13-600 Diode
DP050	266.047	BY399S Diode	BY399S Diode
DP054	309.325.927	1N4148 Diode	1N4148 Diode
DP055	273.434	BZX55B5V1 ZENER Diode	BZX55B5V1 ZENER Diode
DP057	309.325.927	1N4148 Diode	1N4148 Diode
DP058	309.325.927	1N4148 Diode	1N4148 Diode
DP063	256.298	BYW72 Diode	BYW72 Diode
DP065	266.534	BY397 Diode	BY397 Diode
DP066	266.534	BY397 Diode	BY397 Diode
DP067	309.325.927	1N4148 Diode	1N4148 Diode
DP068	309.325.927	1N4148 Diode	1N4148 Diode
DP069	309.325.179	BAV21 Diode	BAV21 Diode
DP070	309.325.179	BAV21 Diode	BAV21 Diode
DR051	309.325.927	1N4148 Diode	1N4148 Diode
DR060	309.325.927	1N4148 Diode	1N4148 Diode
DR061	256.418	BZX55C5V1 ZENER Diode	BZX55C5V1 ZENER Diode
DR062	256.418	BZX55C5V1 ZENER Diode	BZX55C5V1 ZENER Diode
DR078	256.299	ZPD5,6 0,5W 2% ZENER Diode	ZPD5,6 0,5W 2% ZENER Diode
DV001	309.325.927	1N4148 Diode	1N4148 Diode
DV002	309.325.122	BZX55C18 Z-Diode	BZX55C18 Z-Diode
DV003	309.325.927	1N4148 Diode	1N4148 Diode
DV008	351.102.3000	BZX55C13V, Diode	BZX55C13V, Diode
DV047	309.325.927	1N4148 Diode	1N4148 Diode
DV076	256.418	BZX55C5V1 ZENER Diode	BZX55C5V1 ZENER Diode
DV081	309.325.927	1N4148 Diode	1N4148 Diode
DW001	309.325.927	1N4148 Diode	1N4148 Diode
DW002	309.325.056	BA157 Diode SSW	BA157 Diode
DX020	309.325.927	1N4148 Diode	1N4148 Diode
FPA01	309.627.508	T 1,6A Sicherung	T 1,6A Fuse
IA005	309.368.547	TDA2030A44 20W IC	TDA2030A44 IC
IA005	849.380.0017	Montageclip	Clip metal
IA025	309.368.547	TDA2030A44 20W IC	TDA2030A44 IC
IA025	849.380.0017	Montageclip	Clip metal
IF001	252.593	Silikonscheibe	Silicon plate
IF001	309.368.548	TDA8178FS IC	TDA8178FS IC
IF001	849.380.0017	Montageclip	Clip metal
IP001	309.368.549	TEA2261 IC	TEA2261 IC
IR001	309.368.970	ST6395B1/NX ICC8-B35 IC	ST6395B1/NX ICC8-B35 IC
IR001	309.689.966	IC-Fassung, 42polig	IC socket, 42pole
IR001	490.007.9936	ST6395B1/NL ICC8-B33 IC	ST6395B1/NL IC
IV001	256.390	TA8659N IC	TA8659N IC
LC003	339.349.053	47UH Drossel	47UH Choke Coil
LC007	339.349.053	47UH Drossel	47UH Choke Coil
LC013	309.249.328	27U5H 4M43HZ 7X7 Filter	27U5H 4M43HZ 7X7 Filter
LC017	309.249.328	27U5H 4M43HZ 7X7 Filter	27U5H 4M43HZ 7X7 Filter
LC023	309.249.329	6U4H 4M286HZ Filter	6U4H 4M286HZ Filter
LC024	339.349.563	56UH Drossel	56UH Choke Coil
LC028	266.408	10UH Drossel	10UH Choke Coil
LC043	243.053	10UH Filter	10UH Filter
LC044	426.035	8U2H 10% Drossel	8U2H 10% Choke
LC054	309.249.369	27U5H Filter	27U5H Filter
LC069	426.035	8U2H 10% Drossel	8U2H 10% Choke
LI062	309.250.001	27UH 5% Drossel	27UH 5% Choke coil
LL005	309.311.979	Diodensplit-Trafo, (25/28"-110")	Diodensplit transformer (25/28"-110")
LL005	490.007.9643	Diodensplit-Trafo (21"/90")	Diodensplit transformer (21"/90")
LL016	309.250.964	50UH 15% Drossel	50UH 5% Choke

Pos.	Art.-Nr. Part No.	Bezeichnung	Part
LL019	309.309.987	Treibertransformator	Driver transformer
LL023	101.069.70	70UH 4% Drossel	70UH 4% Choke coil
LL023	266.635	83UH 5% Drossel	83UH 5% Choke coil
LL026	309.249.327	30UH Spule, H-Linearität	30UH H-Linearity coil
LL026	387.723.0000	80UH 15% Spule, H-Linearität	80UH 15% H-Linearity coil
LP001	309.259.011	Siebdrossel	Filter choke
LP028	387.721.8000	4UH 10% Spule	4UH 10% Coil
LP036	101.117.90	Trafo, Schaltnetzteil (25/28"-110")	Switched mode power transformer
LP036	490.007.9644	Trafo, Schaltnetzteil (21"/90")	Switched mode power transformer
LP042	261.824	Impulsübertrager	Pulse transformer
LP070	266.189	6U8H 10% Drossel	6U8H 10% Choke
LP070	276.155	15R 0,3W 5% Sicherheitswiderstand	15R 0,3W 5% Fusible resistor
LR003	309.249.375	35UH Spule	35UH Coil
LV049	339.349.763	27UH 5% Drossel	27UH 5% Choke coil
LV051	339.349.718	27UH Spule	27UH Coil
LV052	339.349.763	27UH 5% Drossel	27UH 5% Choke coil
LV064	256.493	22UH 10% Drossel	22UH 10% Choke
LW001	100.889.70	5M5HZ 7X7 Filter	5M5HZ 7X7 Filter
LW002	309.249.328	27U5H 4M43HZ 7X7 Filter	27U5H 4M43HZ 7X7 Filter
LW003	246.756	10UH 10% Drossel	10UH 10% Choke coil
LW004	243.713	12UH 5% Drossel	12UH 5% Choke coil
LW009	309.249.328	27U5H 4M43HZ 7X7 Filter	27U5H 4M43HZ 7X7 Filter
PC044	276.793	220R Trimmwiderstand	220R Trimmer resistor
PF004	309.639.036	Drehschalter	Rotary switch
PF011	309.509.167	220R Trimmwiderstand	220R Trimmer resistor
PG001	309.509.133	2K2R 20% Trimmwiderstand, V	2K2R 20% Trimmer resistor
PG004	309.509.133	2K2R 20% Trimmwiderstand, V	2K2R 20% Trimmer resistor
PL039	309.509.159	470R 20% Trimmwiderstand, H	470R 20% Trimmer resistor
PP052	407.750	470R Trimmwiderstand	470R Trimmer resistor
PV058	309.509.126	10KR 20% Trimmwiderstand, liegend	10KR 20% Trimmer resistor
PV079	339.509.530	1KR 20% Trimmwiderstand, H	1KR 20% Trimmer resistor
QC066	468.031	4,433619MHz Quarz	4,433619MHz Crystal
QL045	309.160.840	CSB503B Keramikfilter	CSB503B Ceramic filter
QR001	309.335.715	8M0HZ Quarz	8M0HZ Crystal
RA009	256.732	1R8 0,3W 5% Sicherheitswiderstand	1R8 0,3W 5% Fusible resistor
RA029	256.732	1R8 0,3W 5% Sicherheitswiderstand	1R8 0,3W 5% Fusible resistor
RC009	309.580.955	22R 0,3W 5% Sicherheitswiderstand	22R 0,3W 5% Fusible resistor
RF004	309.534.669	220R 0,7W 2% Metallfilmwiderstand	220R 0,7W 2% Metal film resistor
RF007	309.532.665	1M5R 0,25W 2% Metallfilmwiderstand	1M5R 0,25W 2% Metal film resistor
RF012	309.580.955	22R 0,3W 5% Sicherheitswiderstand	22R 0,3W 5% Fusible resistor
RF019	243.536	820R 0,4W 2% Metallfilmwiderstand	820R 0,4W 2% Metal film resistor
RF020	246.457	1K5R 0,4W 1% Metallfilmwiderstand	1K5R 0,4W 1% Metal film resistor
RF021	239.087	0R68 0,7W 10% Metalloxydwiderstand	0R68 0,7W 10% Metal oxide resistor
RF023	243.743	1R5 0,5W 5% Sicherheitswiderstand	1R5 0,5W 5% Fusible resistor
RH001	253.747	5R6 0,3W 5% Sicherheitswiderstand	5R6 0,3W 5% Fusible resistor
RH001	309.580.955	22R 0,3W 5% Sicherheitswiderstand	22R 0,3W 5% Fusible resistor
RH002	256.722	82R 2,24W 5% Drahtwiderstand	82R 2,24W 5% Wire resistor
RI015	339.537.716	10R 0,3W 5% Sicherheitswiderstand	10R 0,3W 5% Fusible resistor
RL005	413.087.09	113KR 0,4W 1% Metallfilmwiderstand	113KR 0,4W 1% Metal film resistor
RL011	243.950	15R 0,5W 5% Sicherheitswiderstand	15R 0,5W 5% Fusible resistor
RL012	309.556.277	4K7R 3W 5% Drahtwiderstand	4K7R 3W 5% Wire resistor
RL018	309.556.278	270R 3W 5% Drahtwiderstand	270R 3W 5% Wire resistor
RL021	309.556.275	0R68 3W 5% Drahtwiderstand	0R68 3W 5% Wire resistor
RL021	490.007.9645	1R 3W 5% Drahtwiderstand	1R 3W 5% Wire resistor
RL023	309.556.280	22R 3W 5% Drahtwiderstand	22R 3W 5% Wire resistor
RL023	703.740.00	39R 3W 5% Drahtwiderstand	39R 3W 5% Wire resistor
RL025	309.580.971	2K2R 0,5W 5% Sicherheitswiderstand	2K2R 0,5W 5% Fusible resistor
RL026	239.091	1KR 0,5W 5% Sicherheitswiderstand	1KR 0,5W 5% Fusible resistor
RL027	309.580.970	56R 0,3W 5% Sicherheitswiderstand	56R 0,3W 5% Fusible resistor
RL028	309.556.262	100R 3W 5% Drahtwiderstand	100R 3W 5% Wire resistor
RL030	246.355	0R56 0,5W 5% Metalloxydwiderstand	0R56 0,5W 5% Metal oxide resistor
RL030	490.007.9647	0R18 0,7W 10% Metalloxydwiderstand	0R18 0,7W 10% Metal oxide resistor
RL042	339.529.957	ZPD24 ZENER Diode	ZPD24 ZENER Diode
RP001	246.454	1R2 7W 10% Drahtwiderstand	1R2 7W 10% Wire resistor
RP002	246.454	1R2 7W 10% Drahtwiderstand	1R2 7W 10% Wire resistor
RP005	309.560.952	25R PTC-Widerstand	25R PTC resistor
RP006	490.007.9648	27KR 4W 5% Metalloxydwiderstand	27KR 4W 5% Metal oxide resistor
RP018	256.930	22R 2W 5% Metalloxydwiderstand	22R 2W 5% Metal oxide resistor
RP018	309.556.312	18R 2W 5% Metalloxydwiderstand	18R 2W 5% Metal oxide resistor
RP025	406.517	10MR 0,7W 5% Schichtwiderstand	10MR 0,7W 5% Film resistor
RP031	246.455	150R 9W 5% Drahtwiderstand	150R 9W 5% Wire resistor
RP033	246.455	150R 9W 5% Drahtwiderstand	150R 9W 5% Wire resistor

Pos.	Art.-Nr. Part No.	Bezeichnung	Part
RP051	309.541.641	88K7R 0,4W 1% Metallfilmwiderstand	88K7R 0,4W 1% Metal film resistor
RP062	239.350	0R1 2W 10% Drahtwiderstand	0R1 2W 10% Wire resistor
RP062	242.019	0R1 0,4W 10% Sicherheitswiderstand	0R1 0,4W 10% Fusible resistor
RR000	309.561.933	100KRx4 125MW 5% Widerstandsnetzwerk	100KRx4 125MW 5% Resistor netw.
RR081	309.580.983	220R 0,3W 5% Sicherheitswiderstand	220R 0,3W 5% Fusible resistor
RV020	309.580.974	0R1 0,4W 10% Sicherheitswiderstand	0R1 0,4W 10% Fusible resistor
RV072	309.580.955	22R 0,3W 5% Sicherheitswiderstand	22R 0,3W 5% Fusible resistor
RW001	339.537.716	10R 0,3W 5% Sicherheitswiderstand	10R 0,3W 5% Fusible resistor
RW002	101.202.40	4K7R 0,7W 5% Sicherheitswiderstand, NB	4K7R 0,7W 5% Fusible resistor
SV001	490.007.9938	VIDEO/8110 BG-SVHS	VIDEO/8110 PCB SUB
TA015	463.223	BC548C Transistor	BC548C Transistor
TA045	243.712	ON4771/BD242B Transistor	ON4771/BD242B Transistor
TA045	261.827	Montageclip	Clip
TC034	309.001.293	BC548B Transistor	BC548B Transistor
TF007	463.223	BC548C Transistor	BC548C Transistor
TF008	309.001.293	BC548B Transistor	BC548B Transistor
TF016	465.913	BF422 Transistor	BF422 Transistor
TF025	309.001.293	BC548B Transistor	BC548B Transistor
TI061	309.001.292	BC558C Transistor	BC558C Transistor
TI062	309.001.226	BC558B Transistor	BC558B Transistor
TL017	309.001.350	BSR51 Transistor	BSR51 Transistor
TL019	261.825	Montageclip 1	Clip 1
TL019	309.005.021	2SD1546 Transistor	2SD1546 Transistor
TL019	309.005.026	S2055AF Transistor	S2055AF Transistor
TM003	309.001.292	BC558C Transistor	BC558C Transistor
TM012	266.430	BC558/A* Transistor selektiert	BC558/A* Transistor
TM016	309.001.293	BC548B Transistor	BC548B Transistor
TM018	309.001.292	BC558C Transistor	BC558C Transistor
TP020	463.223	BC548C Transistor	BC548C Transistor
TP025	309.001.293	BC548B Transistor	BC548B Transistor
TP029	309.001.390	BUH713 Transistor	BUH713 Transistor
TP029	309.005.029	BUH515 Transistor	BUH515 Transistor
TP029	309.903.834	Montageclip	Clip metal
TP053	309.001.226	BC558B Transistor	BC558B Transistor
TP054	309.001.226	BC558B Transistor	BC558B Transistor
TP069	309.001.325	BC547C Transistor	BC547C Transistor
TR016	309.001.293	BC548B Transistor	BC548B Transistor
TR017	309.001.226	BC558B Transistor	BC558B Transistor
TR018	352.113.3000	BC636 Transistor	BC636 Transistor
TR063	309.001.226	BC558B Transistor	BC558B Transistor
TR076	309.001.226	BC558B Transistor	BC558B Transistor
TR077	309.001.293	BC548B Transistor	BC548B Transistor
TR082	339.556.900	BC635 Transistor	BC635 Transistor
TV001	309.001.292	BC558C Transistor	BC558C Transistor
TV002	463.223	BC548C Transistor	BC548C Transistor
TV029	309.001.293	BC548B Transistor	BC548B Transistor
TW001	309.001.292	BC558C Transistor	BC558C Transistor
TW002	463.223	BC548C Transistor	BC548C Transistor
TW003	463.223	BC548C Transistor	BC548C Transistor
TW004	309.001.292	BC558C Transistor	BC558C Transistor
TW005	309.001.292	BC558C Transistor	BC558C Transistor
VC043	309.699.270	SDL145S / DL711 Verzögerungsleitung	Delay line
VW001	490.007.9939	SDL102151A-4102-01 Verzögerungsleitung	SDL102151A-4102-01 Delay line
	243.540	Strebe für Chassis	Chassis support
	243.541	Schutzkappe, Netzteil	Protection cap
		Weitere gerätespezifische Ersatzteile lieferbar.	**Further spare parts are available.**

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